

STH -

The
CHEMIST AND DRUGGIST

RETAILER — WHOLESALER — MANUFACTURER

AUGUST 16, 1952

Every day...
Everywhere...

Somebody's
going to need
Alka-Seltzer!

FOR
INDIGESTION,
HEADACHES,
COLDS,
ACHES & PAINS

DON S. MOMAND LIMITED
58 ALBANY ST., LONDON, N.W.1
SOLE DISTRIBUTORS FOR MILES
LABORATORIES LTD. BRIDGEND. S. WALES

ALKALOID
ALK-A-SELTZER
ALKALOID

**A growing practice among
pharmacists, when filling scripts
for VITAMIN B12 in ampoules...
is to supply**

Distributed by
BURROUGHS WELLCOME & CO.
EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL
(PHARMACEUTICALS) LTD.



'DISTIVIT'

BRAND

- a sterile non-pyrogenic aqueous solution of crystalline Vitamin B₁₂ (Cyanocobalamin B.P.C.) for parenteral administration in the treatment, principally, of addisonian pernicious anaemia.
- In ampoules of 20, 50 and 100 micrograms, in boxes of 5 ampoules.

MANUFACTURED BY
THE DISTILLERS COMPANY
(BIOCHEMICALS) LTD.

SPEKE

LIVERPOOL

'DISTIVIT', A TRADE MARK, IS THE PROPERTY OF THE MANUFACTURER

INTRODUCTORY BONUS OFFER CLOSING SEPT. 19th

TRADE
MARK

'ALLEVIN'

I BRAND

COMPOUND
SALICYLAMIDE
TABLETS



the new analgesic with a bigger profit for you
SELLING PRICE (tubes of ten), 2/- each inc. tax. TRADE PRICE, 13/- doz.
3 tubes for every dozen ordered before Sept. 19th

PROFIT 63.8%

This extended offer will definitely close on September 19th

ALLEVIN' can be
scribed on E.C.10's.

PACKINGS
es of 10 tablets :
13/- dozen.
ail price : 2/- each
(including tax).
pensing packs of 100
and 500 tablets.

FOR THE RELIEF OF PAIN in

RHEUMATISM · MYALGIA · FIBROSITIS · NEURITIS
LUMBAGO · SCIATICA · NEURALGIA · HEADACHE
SINUSITIS · DYSMENORRHŒA and DENTAL SURGERY

and as an ANTIPYRETIC in

INFLUENZA and FEVERISH COLD

If you did not receive a copy of the medical literature, please write to us.

ERTS PHARMACEUTICALS LTD., WELWYN GARDEN CITY, HERTS
GMT 139

NOW AVAILABLE G.F.4

THE NEW GROWTH FACTOR

The preparation used in the experiments reported in the British Medical Journal 28th June, 1952.

In recent, exhaustive tests (B.M.J., 1952, 1, 1388), normal, healthy children, given daily supplements of a newly discovered growth factor, gained 20% more in height and 40% more in weight than a similar control group. The preparation used in these tests was G.F.4. It is now available in tablet form, and is indicated for all children with retarded physical progress, whether due to malnutrition, prolonged illness or simple aversion to food; and in convalescence to accelerate recovery.

The new growth factor is concentrated from fresh liver by a new process that ensures full retention of the active principle. G.F.4. must not be confused with vitamin B₁₂, which does not replace it; nor with "growth-stimulating" by-products of antibiotics.

Each pleasantly-flavoured tablet of G.F.4. contains 9.2 grains growth-promoting liver concentrate.

G.F.4 is not advertised to the public and may be prescribed on form E.C.10.

PACK

Box of 28 tablets (a fortnight's supply for one child)

PRICE

Trade: 59/- per dozen boxes
Consumer: 6/7 per box

**Indicated for all
Under-developed
Mal-nourished
or Convalescent
children**

*G.F.4. is a product of Kylon Limited,
distributed through leading wholesalers by*

TAMPAX LIMITED, 110 JERMYN STREET, LONDON, S.W.1



Sales & Sunshine

- ★ Even more attractive advertisements
- ★ A new, large, full colour showcard
- ★ Full supporting range including a new counter Dispenser
- ★ Profitable Bonus Parcels
- ★ Dressed Window Displays to link up with our Summer Advertising Campaign

CROOKES Lacto-Calamine LOTION



A leaflet giving full particulars of the range of Bonus Parcels is being mailed to all Retail Chemists but copies are available on request.

PATA

GLANOID

PANLITTOL TABLETS

A combination of Pancreas grs. 2½
and Thyrcid B.P. gr. ½

FOR CONTROLLING HIGH
BLOOD PRESSURE

Supplied in Bottles of 24 and 100

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

LINSEY STREET, LONDON, E.C.1

Telephone: Clerkenwell 9011
Telegrams: "Armosata-Phone," London



Our illustrations show a few of the larger-selling Rexall Preparations with 'crown' to assist in making a salient and compelling display.

These aids to window shows are provided and are remarkably popular and productive in securing extra sales.

If there is no existing Rexall Agency in your district why not write and ask for detail. Your enquiry will receive immediate attention.

REXALL DRUG COMPANY LIMITED
KIRKEWHITE STREET, NOTTINGHAM

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Enterprising display
under glass provides
protection from
POLLUTION & PILFERAGE

FULL RANGE
FOR EVERY
PURPOSE

MADE &
DELIVERED
by

WATERHOUSE

Makers of Fine Shop Fittings

BULL BRIDGE, ACCRINGTON, LANCS. Tel: ACCRINGTON 4238

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NIPASEPT

Regd. Trade Mark

Combination of *p*-hydroxybenzoates

The harmless preservative
and antiseptic for pharmaceutical and medical
solutions.

*Our Service Dept. will
gladly co-operate with you on
all technical problems.*

NIPA LABORATORIES LTD
TREFOREST TRADING ESTATE
Nr. CARDIFF
Tel: Taffs Well 128 & 150

*Sole Distributors for the
United Kingdom :*
P. SAMUELSON & CO
ROMAN WALL HOUSE
1 CRUTCHED FRIARS, EC3
Telephone : ROYal 2117/8

Just round Your corner...

there's a display of Bourjois' exciting new EVENING IN PARIS and ENDEARING Christmas ranges. Eye-catching, price-tempting, sure-selling lines to boost your Christmas sales. We'll be glad to see you there. You'll be glad you came.

We will be showing our new Christmas ranges at the following hotels:—

TOWN	HOTEL	DATES
ABERDEEN	Caledonian	15 Sept.—19 Sept.
BELFAST	14, Donegall St.	1 Sept.—5 Sept.
BIRMINGHAM	Grand	8 Sept.—12 Sept.
BRADFORD	Trevallyan	15 Sept.—18 Sept.
BRIGHTON	Metropole	30 Sept.—2 Oct.
BRISTOL	Grand	8 Sept.—12 Sept.
CARDIFF	Royal	25 Aug.—29 Aug.
CARLISLE	Crown & Mitre	2 Sept.—4 Sept.
EDINBURGH	Royal	1 Sept.—5 Sept.
GLASGOW	St. Enochs	18 Aug.—29 Aug.
GRIMSBY	Yarborough	16 Sept.—18 Sept.
HULL	Royal Station	25 Aug.—29 Aug.
LEEDS	Queens	1 Sept.—5 Sept.
LEICESTER	Bell	9 Sept.—11 Sept.
LIVERPOOL	Adelphi	15 Sept.—19 Sept.
MANCHESTER	Queens	8 Sept.—12 Sept.
MIDDLESBROUGH	Corporation	8 Sept.—12 Sept.
NEWCASTLE	Crown	15 Sept.—19 Sept.
NORWICH	Castle	29 Sept.—3 Oct.
PLYMOUTH	Duke of Cornwall	1 Sept.—3 Sept.
PORTSMOUTH	Queens, Southsea	15 Sept.—18 Sept.
SHEFFIELD	Grand	29 Sept.—3 Oct.
SOUTHAMPTON	Court Royal	22 Sept.—25 Sept.

BOURJOIS extends a cordial invitation to you to visit one of these displays.

BOURJOIS LTD.

MEMO



Contact
Cox of Brighton
RE PILLS & TABLETS

AN ORGANISATION THAT
HAS EXTENSIVE PRODUCTION
FACILITIES AND OVER A
CENTURY OF EXPERIENCE...

ARTHUR H. COX & Co. LTD
BRIGHTON • SUSSEX

Prefeably B.D.H.

SEX HORMONES

Recent introductions

‘OESTROFORM’ AQUEOUS

Œstradiol Monobenzoate B.P.
in Aqueous Suspension

‘LUTOFORM’

Progestin B.P. in Aqueous Suspension

‘TESTOFORM’

Testosterone Propionate B.P. in
Aqueous Suspension

‘MEPILIN’

Tablets containing Ethinyloestradiol
0.01 mg. and Methyltestosterone 3 mg.

ANDROGENS

Testosterone Propionate B.D.H.
Methyltestosterone B.D.H.

PROGESTOGENS

Progestin B.D.H. Ethisterone B.D.H.

ŒSTROGENS

‘Estigyn’ (Ethinyloestradiol B.D.H.)
‘Oestroform’ (Œstradiol Monobenzoate B.P.
Œstrone B.P.) Dienoestrol B.D.H.
Stilboestrol B.D.H. Hexoestrol B.D.H.

**ANDROGEN AND
ŒSTROGEN (combined)**

‘Mepilin’

GONADOTROPHINS

‘Gonan’ ‘Serogan’

*Descriptive literature on any of the above products
will be forwarded to pharmacists on request*

THE BRITISH DRUG HOUSES LTD. LONDON N.1

AMAZING SUCCESS of New Line!

In the matter of a few weeks the Racasan Air Freshener has caught on with the chemist and public. They are attractively packed in their own individual hanging carton, and are available in 6 perfumes—Lilac, Lavender, Violet, Pine, Narcissus, Heather. Approved by Good Housekeeping Institute. Nationally advertised.

RACASAN AIR FRESHENER AND MOTH REPELLENT

Good discounts. Retail Price. 3 Dozen Assorted in display box 1/3d. each.

Ask your wholesaler or write for further details TODAY

RACASAN LIMITED

ELLESMORE PORT, CHESHIRE
Also at London & Liverpool

AVAILABLE
IN SIX
PERFUMES



ESTABLISHED 1858

Sayers, Silcox, Cuzner & Co. Ltd.

Wholesale and Retail

SPRING AND ELASTIC TRUSSES, SURGICAL BELTS AND CORSETS, SUSPENSORY BANDAGES, ETC. CALIPERS AND APPLIANCES MADE TO INDIVIDUAL ORDERS

II STORY ST., HULL Tel. 36613/4 Grams. SAYERS, SILCOX, HULL

MAKERS OF SURGICAL INSTRUMENTS & APPLIANCES



HERE'S THE THING

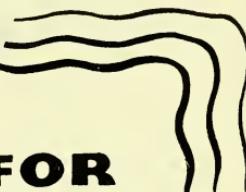
Why is Calsol Milk a best seller? because it doesn't solidify, doesn't separate—keeps its satin-smooth creaminess on the beach, in the home—and on your shelves!

HERE'S THE THING



CALSOL MILK made by JEFFREYS MILLER & COMPANY LIMITED.
LEYLAND MILLS WIGAN

HOT NEWS



FOR

Summer Sales!

The new 'THERMOS' Brand Vacuum Flask (Model No. 7) is fast becoming a best-seller this summer . . . thanks to advertisements like this in the

DAILY EXPRESS

DAILY MAIL

DAILY HERALD

WORLD SPORTS

ANGLER'S NEWS

FARMERS' WEEKLY

MOTOR SPORT

SHOOTING TIMES

YACHTING MONTHLY

HORSE & HOUND

Make sure you get the full benefit of this campaign—with a bold display of these bright new flasks.

THERMOS

REGISTERED TRADE MARK

first name for vacuum vessels

HOT NEWS FOR
Summer Days

SEAMLESS
ALUMINIUM
CORRUGATED
for STRENGTH
ANODISED in
3 COLOURS
CANNOT STAIN
WONT SCRATCH
RUSTLESS

*ONLY 8/-



Here is the vacuum flask you need this summer—to keep hot drinks hot, cold drinks cold. Its special features make it the sturdiest flask available . . . better able to take the inevitable knocks of picnics, hikes, days by the sea. And in pastel pink, green or blue it's a real beauty!

Model No 7

THERMOS REGD. TRADE MARK
first name for vacuum vessels
FLASKS • JUGS • JARS

THERMOS (1925) LIMITED
SEYMORE ROAD, LONDON, E.10
Phone: LEYtonstone 4061-4

**It's ZAC for
Nurse's own Baby**

What does a nurse do when she marries and has a baby of her own with "nappie-chafe"? Well, my own baby is one nurse's answer: "For my own baby I never use anything else but ZAC Baby Cream: in fact, I would not be without it. When my daughter was 6 months old, she was unfortunate enough to contract gastro-enteritis, even though breast-fed and I am happy to inform you that only through the use of ZAC was I able to prevent her buttocks becoming sore."

A.W.

S.R.N.

Z
A
C
B
a
b
y
C
r
e
a
m

contains lanoline,

nearest to natural

skin oils. Keeps

baby "Nappie-

smell!" and

use

1/9 jar



**"Wonderful for
Nappie-Chafe"**

Says Mother of Three

And not only for Nappie-chafe but for rough skin and chapped hands, too. Read this mother's letter: "Will you please allow me to thank you for bringing out such very good stuff as ZAC Baby Cream. It is really wonderful for healing nappie-chafe. My other two daughters use it for rough skin and chapped hands. I wouldn't be without a jar for the world. When I take my baby to the Welfare Centre I always recommend it to other mothers."

Mrs. A.C.

Sheffield.

ZAC Baby

Cream con-

tains lanoline,

nearest to natural

skin oils. Keeps

baby "Nappie-

happy" and sweet-

smelling. Economical in use. From

all chemists. 1/9

ule quan-

**Baby's Rash
Vanished**

Almost Overnight

Good news is worth sharing. "I feel I must write," says this mother, "to tell you how much I value your ZAC Baby Cream. Baby had a rash when just a few weeks old and I tried everything I could think of. Then I saw your advert. for ZAC Baby Cream and tried it. Baby's rash vanished almost overnight. I was so pleased I recommend it to all my friends and I'm never without it. Baby is now nearly 9 months old and I've had no more trouble."

Mrs. C.W.M.

Hornsea, E. Yorks.

ZAC Baby Cream con-

tains lanoline, nearest

natural skin oils. Keeps

baby "Nappie-

happy" and sweet-

smelling. Economical in use. From

all chemists. 1/9 jar: double

all chemists. 409

Here are specimens of the

new ZAC adverts

which are stepping up
the sales of ZAC Baby Products in
every part of the Kingdom

The latest ZAC Baby Cream and Baby Powder advertisements are markedly increasing sales of these popular preparations in *every district in the kingdom*.

Lovable baby drawings by a famous artist which illustrate user-mothers' own satisfaction are persuading other mothers to buy ZAC. And once they have experienced these high quality preparations, they repeat and repeat and repeat!

Over 30 million ZAC advertisements appear every month in the leading Women's Magazines and in the National Press. Steady and continuous sales are CERTAIN.

HOW ARE YOUR STOCKS?

ZAC

BABY PRODUCTS

**RIGHT for BABY—RIGHT for
MOTHER—RIGHT for YOU**

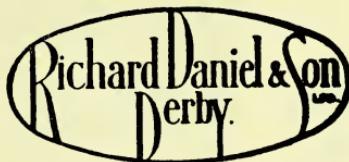
HOUGH, HOSEASON & CO. LTD., CHAPEL STREET, MANCHESTER 19.

PENICILLIN PREPARATIONS

LOZENGES · TABLETS · OINTMENTS · Etc.

Aids to Dispensing Outfits of Creams and Drops

MANUFACTURED BY



DISTRIBUTED BY

MOORE MEDICINAL PRODUCTS LTD

I, QUEENS TERRACE
ABERDEEN. Tel: 27233

64 GLOUCESTER PLACE

LONDON, W.I. Tel: WELbeck 5718/9

Detailed Price List on Request

DISTRIBUTOR WANTED

For the Manufacture and Sale in Great Britain of a simple, reliable, sensitive reagent for detection of albumin in urine. Used by doctors, hospitals and clinics.

Write full particulars to :

AC-RE CHEMICAL COMPANY

83-75 116th Street, Kew Gardens, N.Y., U.S.A.



Personality
TURTLE OIL SOAP
and other
PERSONALITY PRODUCTS
are now available through a
selected list of *Chemist*
Wholesalers

* * *

Personality Beauty Products Limited, of Ashby-de-la-Zouch, Leicestershire, have made arrangements whereby supplies of all Personality products, including:

PERSONALITY
TURTLE OIL SOAPS
PERSONALITY
EXQUISITELY PERFUMED SOAPS
PERSONALITY
TURTLE OIL SKIN FOOD
and
PERSONALITY TURTLE OIL
SHAVING STICKS
AND REFILLS

can be obtained from a large number of Wholesalers. A full list can be supplied upon application.

* * *

Please apply for supplies to your Wholesaler if you require less than the factory standardized carriage paid packs.

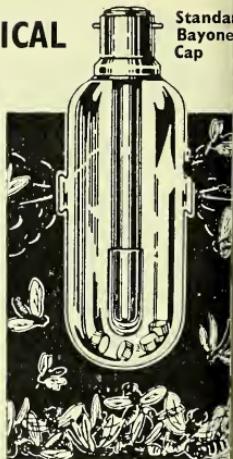
BACTERIOLOGICAL WARFARE!

Most microbes and germs are carried by insects — DESTROY these and the germs die.

Just switch on
a **VULCAN Lamp**.

The new
“**PLUG-IN KILLER**”
—DEATH TO INSECTS

KILLS all flies, moths, ants, beetles, cockroaches, weevils, grubs, larvæ and mosquitoes.



THE VULCAN LAMP LASTS FOR YEARS
Guaranteed harmless to animals and food.

RETAIL PRICE
Lamp and tube of 15 tablets - - - £1 complete
Refill tubes of 15 tablets - - - 4/- each

STOCKISTS WANTED Showcard and Leaflets free
GENEROUS TRADE DISCOUNTS

THE VULCAN FUMIGATOR CO., 306 TEMPLE CHAMBERS, TEMPLE AVE., E.C.4. Tel: CENtral 45



REGULAR ROAD DELIVERIES

*In the West of England and
South Wales Areas*

*The House in the West for all
Chemists' Supplies*

**Send us your orders for prompt and
careful attention.**

**FERRIS & COMPANY LTD.
BRISTOL**

Manufacturing and Wholesale
Chemists

Telephone:
BRISTOL 21381

Telegrams:
FERRIS, BRISTOL

TO ALL USERS OF
GUM TRAGACANTH

Whether you order
by the tin, or by the ton,
you get the best *value* by specifying
'Red Carnation' Brand

POWDERED GUM TRAGACANTH IN FOUR GRADES,
OF CERTIFIED QUALITY AND CHARACTERISTICS

THE formula for your product calls for a specific quantity of Gum Tragacanth. But, since Tragacanth in its natural state has natural imperfections and variations, can you be sure that the *same* quantity from *different* consignments will give the *same* results? You can—if you specify **RED CARNATION** Brand. For, whenever you order and whatever grade you order, you know what you will be receiving—powdered Gum Tragacanth in a stabilised form as regards viscosity, colour and fineness of powder. And, whatever time of the year you order, you can be sure that the Gum Tragacanth you receive is fresh, because **RED CARNATION** Brand is in such constant demand (it is specified by leading manufacturers of food and pharmaceutical products throughout the country) that there is no risk of deterioration through long storage.

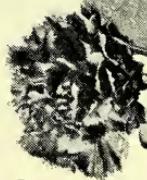
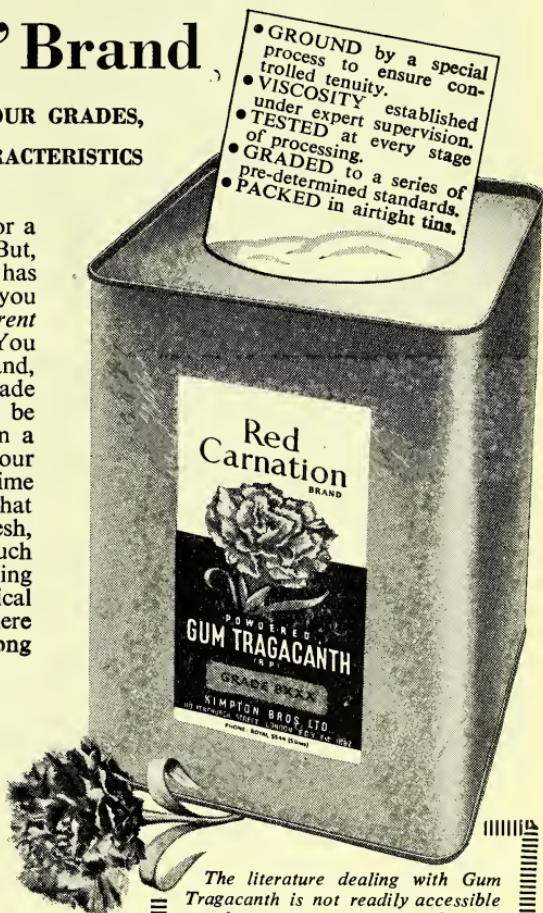
GRADES			
1	2	3	4
BXXX	BXX	BX	BA

Red Carnation
BRAND
POWDERED GUM TRAGACANTH

KIMPTON BROS. LTD.

Established 1882

FENCHURCH ST., LONDON, E.C.3. Phone: ROYAL 5544 (5 lines)



The literature dealing with Gum Tragacanth is not readily accessible to the average commercial user. On request, you can obtain a free 12-pp. illustrated booklet, telling "The Story of Gum Tragacanth".

If you have any queries regarding **RED CARNATION** Brand Gum Tragacanth—e.g. which Grade is most suitable to your requirements—our Research Department will be pleased to advise you.

NOW MADE IN **TWO** SIZES!

You can now get

SILPAK

*the cotton-wool towel
with soft plastic shield*

IN **SIZE 2**

AS WELL AS **SIZE 1**



Hitherto only available in Size 1, Silpak cotton-wool towels with the soft plastic shield are now also made in size 2.

The retail price of Size 2 is 2/3 per packet of twelve.
Trade price per dozen packets is 20/3, including Purchase Tax on shield.

The larger size brings the advantages of Silpak to a greater number of women users, who will also appreciate the comfort and security of a cotton-wool towel at a relatively low price.

This means an increased demand for Silpak, more sales for you, and more profits.

SILPAK

Cotton-Wool Sanitary Towels

Also: SILCOT Cotton-Wool Towels • VENSILLA Soluble Towels • SILCOT Sanitary Be

MACDONALD & SON LTD., HOPE MILLS, POLLARD STREET, MANCHESTER

Of these five people . . .



... three wear dentures*



The significance of these figures is that 3 out of 5 of your adult customers should be regular customers for Steradent.

For they want what Steradent gives them—"oxygen-clean" false teeth: thoroughly, safely, "oxygen-cleaned" in every corner and crevice.

Steradent is backed by a powerful national advertising campaign

planned to sell "oxygen-cleaning" to every denture wearer in Britain.

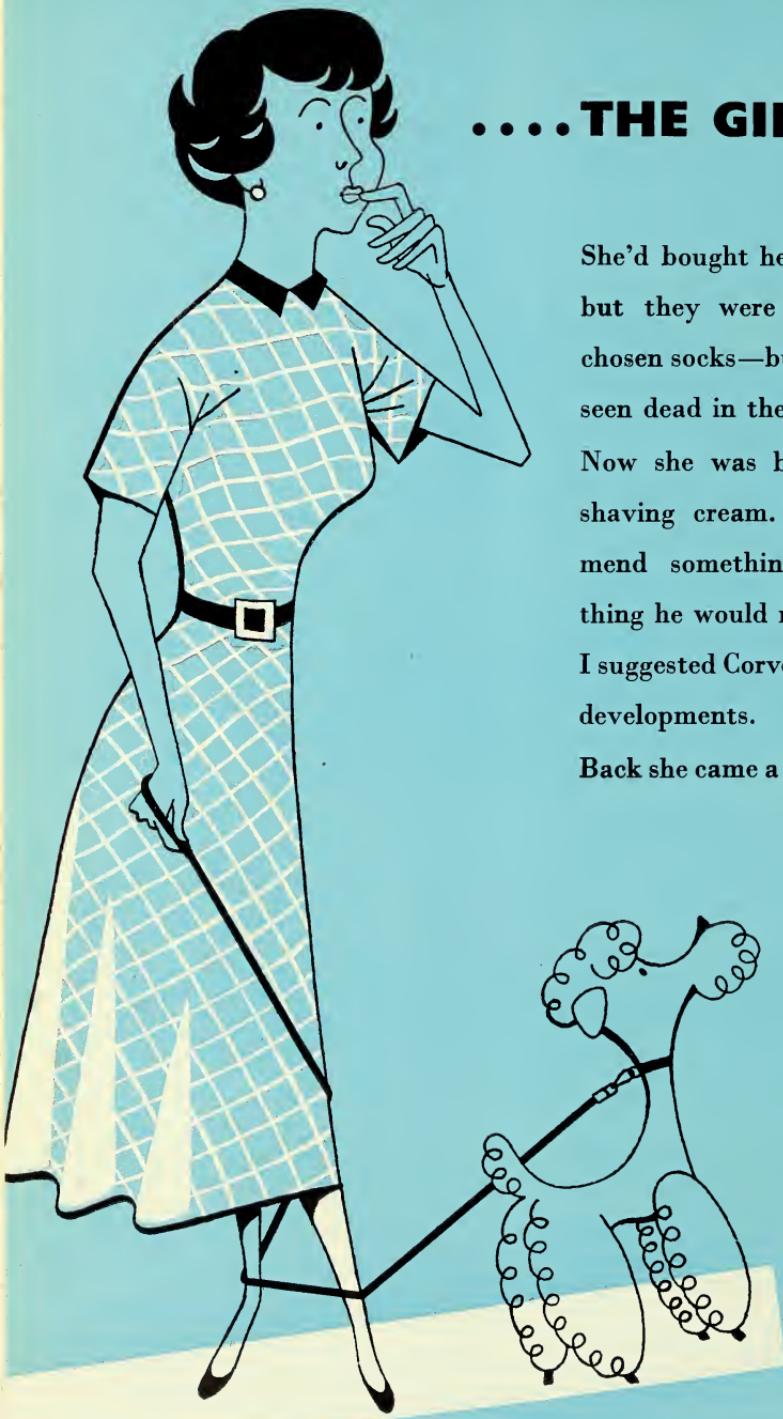
Which means to *3 out of 5 of your adult customers.*

* Figures from latest national statistics.

Steradent
REGD

Specially made to
oxygen-clean¹ false teeth





....THE GIRL WHO

She'd bought her husband ties—but they were too loud. She'd chosen socks—but he wouldn't be seen dead in them, the brute.

Now she was buying him some shaving cream. Could I recommend something special, something he would really fall for? I suggested Corvette—and awaited developments.

Back she came a few days later, al-

COULDN'T DO RIGHT

smiles and sweetness. Her husband was *delighted*. She was a clever thing. Everything in the garden was lovely. But please . . . could she have some Corvette hair cream now, as he wanted it to match.

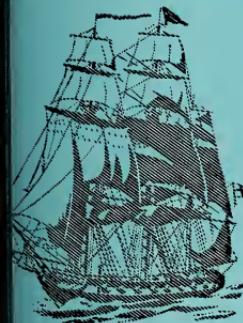
I find that's a strong point with Corvette—if a man likes one of of the 9 matched products, he's fairly certain to like another. And that means a double sale.



SHAVING STICK	-	-	-	-	-	3/-
SHAVING BOWL	-	-	-	-	-	5/6
LATHER SHAVING CREAM	-	-	-	-	-	3/-
BRUSHLESS SHAVING CREAM	-	-	-	-	-	3/-
HAIR CREAM	-	-	-	-	-	3/6
BRILLIANTINE	-	-	-	-	-	4/-
SOLID BRILLIANTINE	-	-	-	-	-	3/6
TALCUM POWDER	-	-	-	-	-	4/6
AFTER SHAVE LOTION	-	-	-	-	-	4/-

*Exceptionally
attractive
profits*

It pays to sell Corvette, and it pays handsomely. There is 1/6 profit for you on the shaving bowl and 1/- profit on the refill. All other items in the range show a profit of not less than 10d.



Corvette

quality range of matched toilet preparations for men

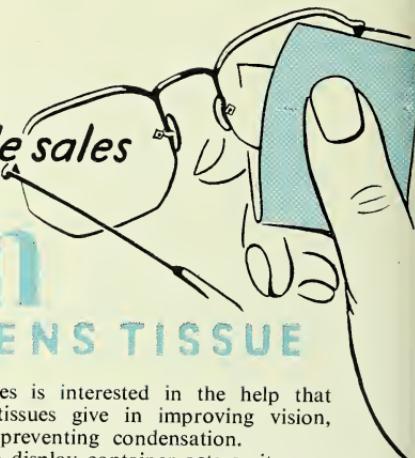
Goya (Men's Division) 161 New Bond Street London W1

*See your way clearly
to substantial self-made sales*

with

Gleam

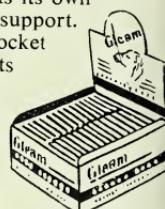
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Everyone wearing spectacles is interested in the help that Gleam impregnated lens tissues give in improving vision, keeping lenses clean and preventing condensation.

Gleam's compact self-serve display container acts as its own salesman with no more than casual reference needed in support. Gleam Tissue is attractively packed in a neat vest pocket automatic dispenser which delivers each of the 50 sheets it contains ONE at a time. The display containers hold 48 vest pocket dispensers retailing at 6d. each. Send for a free sample for your personal use and order through your wholesaler or direct from

General Paper & Box Manufacturing Company Limited
Treforest Trading Estate, Pontypridd, South Wales, Gt. Britain



Firm Favourites *with all the family*

Every woman wants bathtime luxury and day long freshness—sell her delicately perfumed mildly medicated Cuticura Soap and Talcum Powder. Many of your customers have a "problem skin"—Cuticura Ointment is the perfect answer.

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Cuticura
MEDICATED & TOILET
SOAP • OINTMENT • TALCUM • SHAVING STICK

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N1 & R14

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Blue N1

superstrong, hardwearing, in Nylon Net.

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superfine, invisible. As originally constructed in Real Silk.

These Raywarp 'best selling' nets in their new appealing packs are bound for even bigger sales—sell them from the distinctive Perspex Dispenser—given FREE with orders for 2 gross nets.

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Raywarp
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SURGICAL DRESSINGS

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**PURE WHITE ABSORBENT GAUZES,
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Hospital and B.P.C./N.H.I. Qualities
Plain and Sterilised.



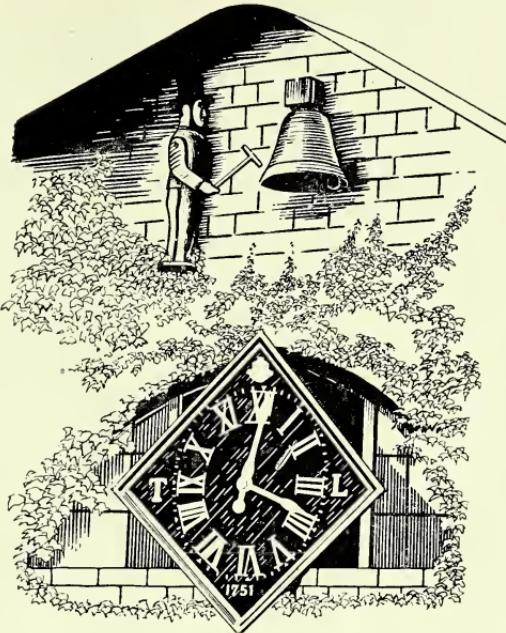
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by
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Hagley Hall, in Staffordshire, is probably the only private house in Britain to have a clock with a moving figure or jack, which strikes the hours. Installed in 1751 this worked regularly for nearly two centuries, until it was damaged by fire a few years ago—great tribute to the craftsmen who built it.

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CHEMICALS**

Some of which are:—

*Bismuth Carbonate and other Bismuth Salts.
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Regularly advertised in the leading Women's Magazines and on London's Underground.

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In attractive display outers each containing two dozen cards.

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CREAM 50% D.M.P. Pleasant, non-greasy, vanishing. In attractive Satin finished Aluminium flat Tins containing 1.8 oz.

Packed 2 Doz. per Display Outer.

LIQUID 100% D.M.P. Attractive 1 oz. Bottles with controlled pourer. Packed 1 Doz. per Display outer.

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(REGD. TRADE MARK)

for mixing with the feed in the control of coccidiosis



In an authoritative article* published recently Animal Health Trust research workers testified to the effectiveness of 'Nefco'.

- 'Nefco' controls coccidiosis outbreaks effectively.
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* *British Veterinary Journal*, February 1952.



'Nefco' is issued in the form of a premix which is simply incorporated in the mash.

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**THIS "DISPENSER" WILL
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**A bonus of 13 to the dozen is offered
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★ Its price (1/3 for the tube of 10), its size (slips into handbag or pocket) and its effectiveness (contains four active ingredients), give 'Codemprin' a special appeal to the customer for whom aspirin is "not enough".

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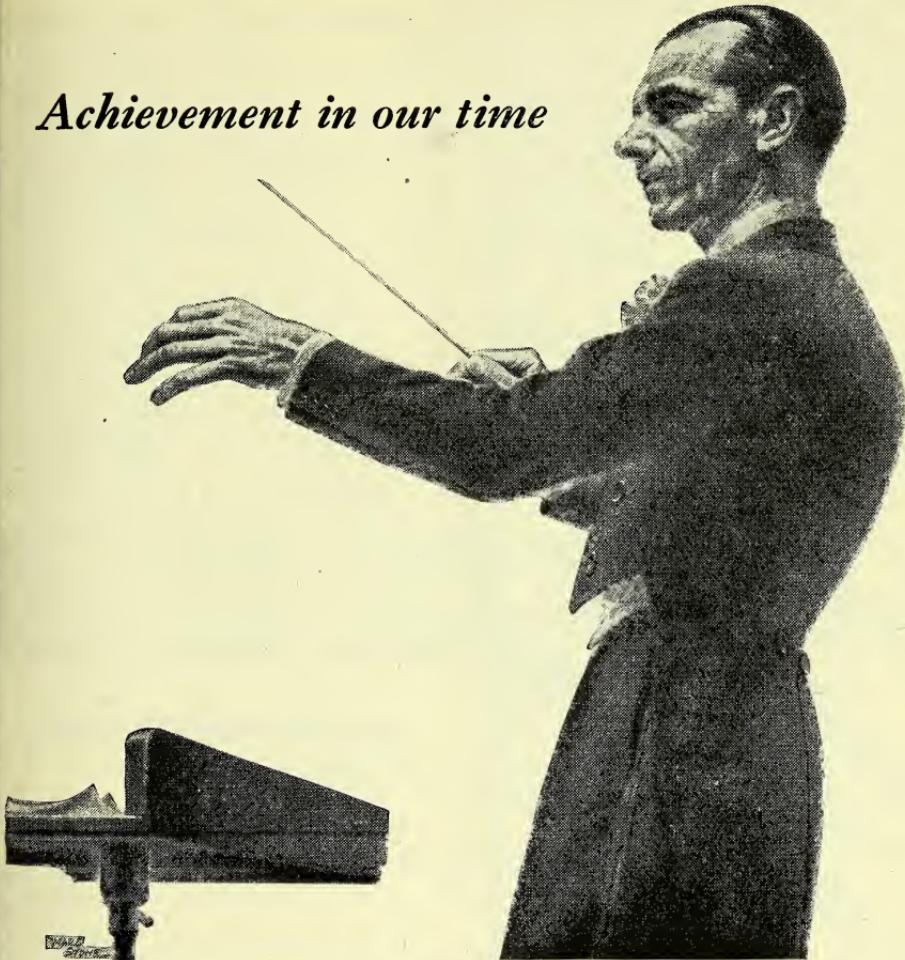


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*... we do it well,
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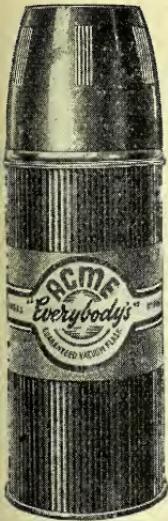
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With large cup as
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Made of corrugated rust
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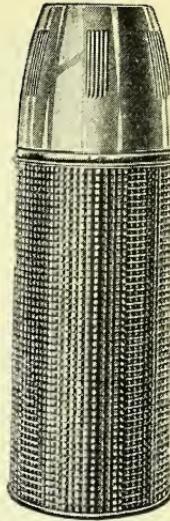
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Made of strong aluminium
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Extra large Polystyrene
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variety of colours.



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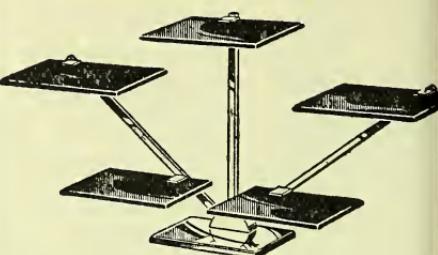


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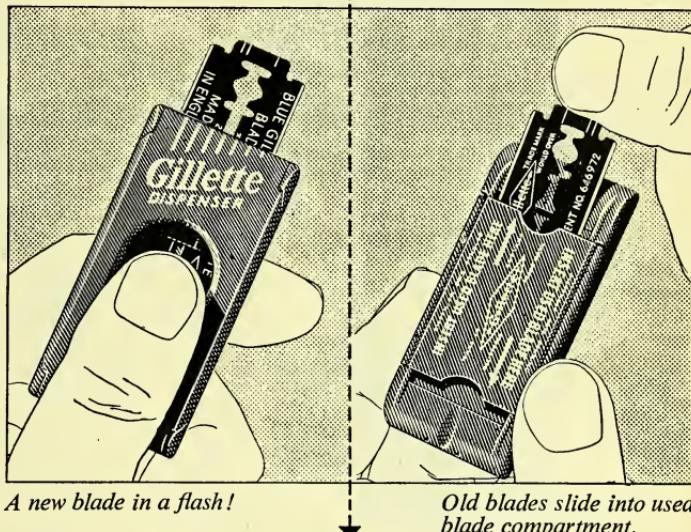


New Gillette pack

means more profit for you

Available from
mid-August

10-Blade
Blue Gillette
Dispenser with
built-in used blade
compartment
retail price 3/-
including P. Tax



10-Blade Blue Gillette Dispenser with used Blade compartment

The new Dispenser contains 10 Blue Gillette Blades perfectly protected, factory sharp, READY UNWRAPPED FOR INSTANT USE; and a built-in compartment that solves the old blade nuisance for good. The Gillette national advertising campaign will feature this new Dispenser from mid-August. Order now and ensure delivery.

The Price Range for Blue Gillette Blades
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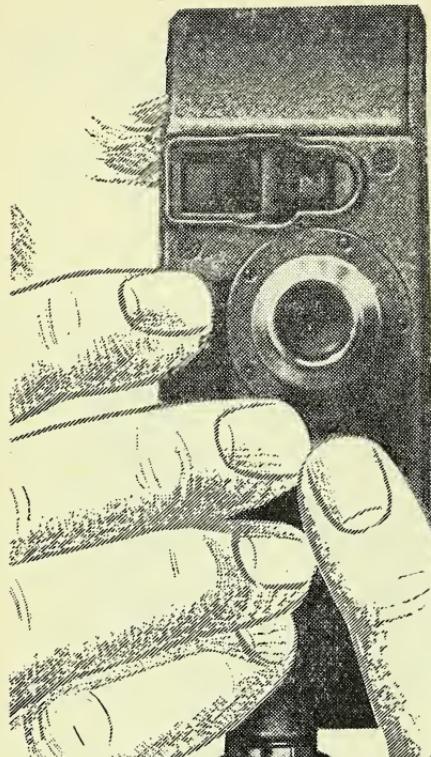
10-Blade Dispenser (as above) 3/-

20-Blade Dispenser (present model) 5/8

Standard packets: 10-Blades 2/8 5-Blades 1/4

Trade enquiries to your usual wholesaler or direct to:—
Gillette Industries Limited, Great West Road, Isleworth, Middlesex



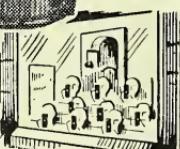


It's got what it takes in every inch!

Plan now to sell the G.B.-Bell & Howell *Sportster* Movie Camera . . . show your customers the handsome, compact design, rugged construction, and above all, the superb features that mean *success* in personal movie-making.



Build your selling efforts on *Sportster* National Advertising in *Picture and Illustrated*.



Make special window displays.



Give demonstrations and advertise in the local press.



Send out letters to the right people.

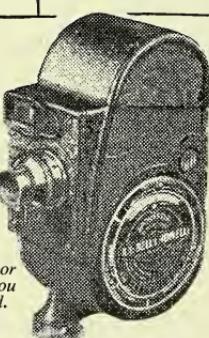
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Taylor-Hobson coated lens • 4 accurately calibrated operating speeds

Built-in exposure guide • Single frame exposure
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And . . . the SCREENMASTER

8 mm. PROJECTOR for showing personal movies at their *BEST*.

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The two hole Feeders can be
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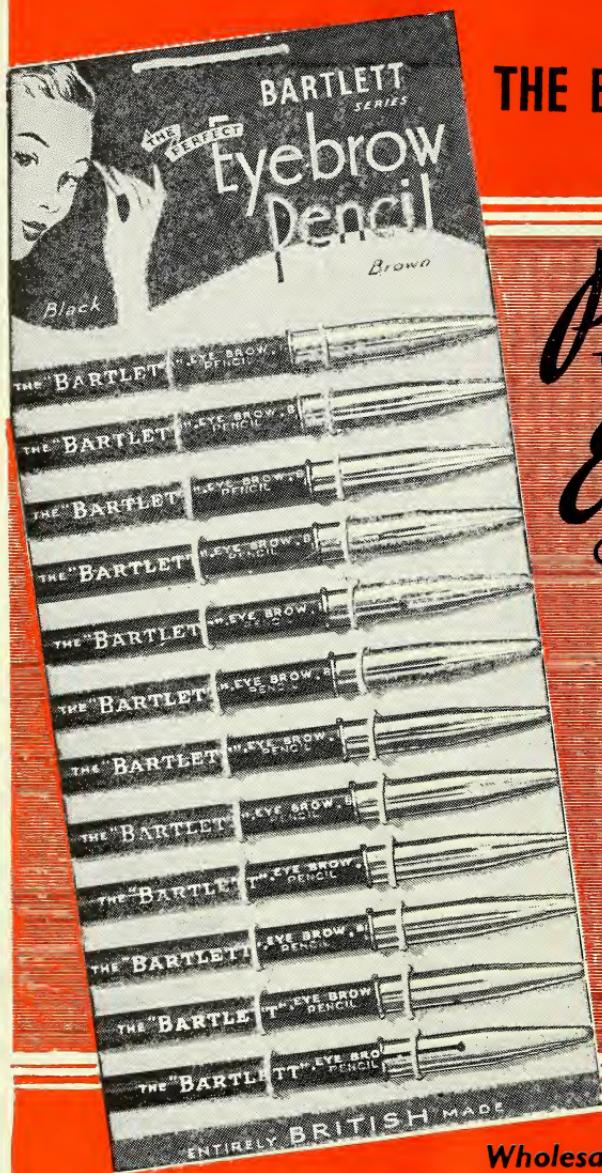
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County
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without success.
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"Andrex" Toilet Tissue?
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... softest and kindest paper I have ever used
... shall certainly continue to use it, so long as it is
available ... recommend "Andrex" to all my
friends.

H.G., SHEFFIELD

You want **THEIR** business..

IT'S 'ANDREX' they're after — the dozens who write to us every month applauding the merits of this softer, this completely *different* toilet tissue. Advertising in the Radio Times and other top-circulation journals sends them hunting for 'Andrex', and when

they write to us they really mean business — *your business*. If dozens trouble to write, thousands are willing to buy! They want it because it's softer and more economical than any other tissue. Stock Andrex now, and show it — *it sells!*

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and what a difference"

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EDICAL and chemical science are so closely linked together that it would be difficult to attribute the great progress over the past half-century to one without commending the other.

But there is no doubt of the place modern germicides have won in the battle against death and disease. Fifty years ago, septic infection was commonplace. Today, it is a rarity. The large-scale commercial production of antisepsics and disinfectants has made this possible, for, quite apart from their vital importance in hospitals and surgeries, germicides have reached into every home. The huge number of commercial antisepsics and disinfectants sold today help fight infection from countless scratches, cuts and sores. And a large number of these preparations contain Monsanto germicides.

How Monsanto helps you continue this good work

Monsanto's pioneer research has developed a range of effective, reliable germicidal chemicals on which the whole

Since 1901, better medical knowledge and conditions — aided by parallel progress in chemistry — have added nearly 20 years to the "allotted span" of human life. Infant mortality is the lowest ever — 30 per thousand live births. Ten years ago it was 60. Germicides have, doubtless, contributed much to these advances.

and they lived happily ever after ??

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Since the relative importance of these points will vary according to circumstances, a choice of germicides is essential and Monsanto offers a comprehensive range. These are now all in reasonable supply for prompt delivery. For full information on these and other Mon-

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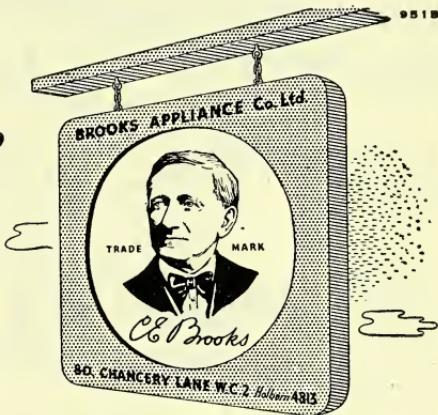
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" 2	2/8	23/5
" 3	3/4	27/4

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SIZE 1		
Packets of 6	11d.	8/6
Packets of 12	1/10	16/6

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	RETAIL Per Packet	TRADE Prices - Dozen
SIZE 1		
Packets of 6	1/-	9/2
Packets of 12	2/-	18/3

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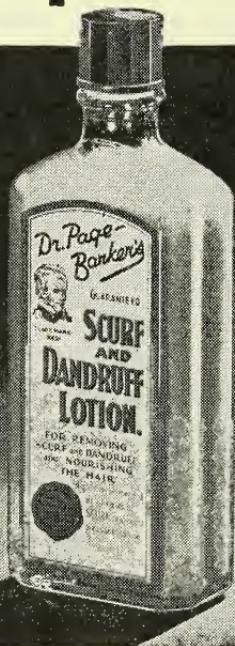
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The CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

AUGUST 16, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Strand, London."

Single copies 1/- each. Annual Subscription, which includes The Chemist and Druggist Diary and Year Book, £2

Volume CLVIII

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NEWS OF THE WEEK

Course on Cosmetic Chemistry.—A third year course in cosmetic chemistry has been arranged by the Hackney College, Dalston, London, E.8. Further particulars may be obtained from the college or from the secretary of the Society of Cosmetic Chemists of Great Britain (Mr. J. Hulley), Sherborne, Yew Tree Road, Woking, Surrey.

492 Years' Service.—Thirteen members of the staff of the European branch of Clarke, Davis & Co., Ltd., retired on July 5 with a total of 492 years' service. Among them were Dr. J. S. White (head of the clinical investigation department), and Mr. A. T. Bradford (manager, purchasing department). The following representatives retired at the same time:—Messrs. A. E. Anderson, sen. (South African representative), J. E. Morris (home representative) and D. E. Stromberg (Scandinavian superintendent). An inscribed gold watch was presented to the Jounslow group by the management.

Preventing Factory Fires.—At a meeting of the Central Metropolitan Group of

the London Industrial Committee held in London recently, Mr. W. J. Carter (fire security officer, May & Baker, Ltd., Dagenham) gave an address on "Fire Prevention in Factories." Fire prevention in industry called for a good organisation and co-operation with all departments, he said. If the fire officer were given a sight of plans costly mistakes might be avoided, and the experience of the trained officer prove invaluable.

London Restrictions on Waiting Vehicles.—One-side waiting on thirty-one streets in the inner and outer areas of the Metropolitan Police district is being introduced for all vehicles for an experimental period so soon as the necessary signs can be erected. The regulations will prohibit waiting on alternate sides of the affected streets on odd and even dates between 11.30 a.m. and 6.30 p.m., Monday to Friday in the inner, and Monday to Saturday in the outer areas. A new feature is a ban on loading and unloading of vehicles on that side of the street on which waiting is not allowed. A list of the streets may be

obtained from the Ministry of Transport, Berkeley Square House, London, W.1.

Increased Cable Charges.—The General Post Office announces that increased charges for overseas telegrams are being made from September 1. Examples of how the rates per word will increase are:—U.S.A. and Canada, from 8d. to 1s.; Australia, New Zealand, S. Africa, 1s. to 1s. 4d.; the Argentine, 1s. 7d. to 2s. 1d.; France, Belgium, 3d. to 4d.; Denmark, Sweden, Norway, 3d. to 4½d.; Germany, Portugal, 3½d. to 4½d. Rentals for international private wire telegraph circuits and call charges in the international Telex service are also being increased.

Retail Wages Increase.—Settlement was reached on July 30 of a claim made by the trade union side of the National Joint Industrial Council for Retail Pharmacy (England and Wales), for increases in minimum rates of remuneration in retail pharmacy. The full council met on that date. The agreement provides that the weekly rates for pharmacists in all areas given in the fifth J.I.C. agreement (*C. & D.*, 1951, I.250) shall be increased from September 1 as follows:—Managers: male, 15s.; female, 13s. Qualified assistants (qualified for three years or less): male, 12s.; female, 10s. The weekly rates for all other employees affected by the fifth agreement are also being revised. The revised rates are being incorporated in a sixth agreement.

Examination Results.—The following satisfied the examiners in the Chemist and Druggist Qualifying examination held by the Pharmaceutical Society in Scotland in July:—

Albone, Brian S.
Barr, Pamela D.
Bennett, Ronald F.
Berry, Peter W. B.
Boardman, Peter
Boobier, Derek J.
Braithwaite, Dorothy
Burns, James A.
Cairns, Doreen E.
Catterson, Ralph G.
Caulker, Francis E.
Chapman, Josephine
Coughlan, Teresa
Cross, Edward R. D.
Cummins, Maureen
Darnbrough Peter M.
Dunstone, Diana M.
Ellis, Beryl M.
Evans, John W.
Falder, Joan P.
Fewings, Malcolm J.

Gallimore, Elspeth M.
Gibson, Fred
Gogerty, George W.
Green, William D.
Greenough Ronald W. E.
Gruber, Margaret
Haddock, Betty B.
Hagen, Kenneth A.
Hardy, June C.
Hare, Malcolm R.
Harris, Elizabeth A.
Hodgson, Thomas E.
Marchand, Emmanuel J. S.
Hellewell, Frank
Hemingway, Derrick
Hodson, Donald
Horton, Bertram P.
Hourie, Allan S.
Kay, Jean T.

Lewis, Margaret A.
(Mrs.)
Lloyd, Glenys
Lloyd, Robert
Lloyd, Robert S.
Lockhart, Joy P.
MacKenzie Elizabeth F.
McNulty, Daniel
McQuaid, John J.
Mills, Herbert S.
Newman, Jack
O'Sullivan, Margaret M.
Parker, Michael H.
Prescott, James A.

Saville, Peter
Shiers, Merton M.
Singleton, Helen
Slesser, Margaret F.
Stanley, John N.
Tait, James H.
Teevin, John G.
Perlow, Henry I.
Upton, Eunice M.
Walsh, Francis T.
Williams, Arthur J. W.
Wilson, Ian W.
Woolf, William
Wright, Eileen M.

The following satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held in England and Wales:—

Allen, William J.
Amin, Hariprasad R.
Anderson, Keith
Anslow, Leslie T.
Arthur, Christine J.
Balmford, John E.
Bhattacharyya, Amal C.
Bird, Alan E.
Blackmore, Anne
Bow, Albert J.
Brighton, Ronald E. R.
Burges, Daphne P.
Cobb, Sarah C.
Cox, Peter W. A.
Davies, David S.
Eyre, Hugh R.
Fraser-Betts, Roy M.
Galloway, Christopher R. H.
Giles Francis W. L.
Green, Reginald G.
Greensides, Molly D.
Haddock, David J.
Hall, Marie
Harrison, Audrey M.
Hill, Douglas G.
Hilton, Audrey
Howell, Valerie S.
Jenkins, Edna M.
Jenkins, Margaret E.
Jones, David O. G.

Jones, Dennis L.
Jones, Pamela E.
Lee, Joan L.
Leech, Sheila A.
McArdle, Sean
Macnab, Angus S.
Macvean, Beatrice E.
Martin, Bernard K.
Moir, Gwynneth J.
Pennefather, Godfrey V.

Powell, Trevor S. I.
Rodger, Robert
Seccull, Frederick J.
Smitten, Dennis E.
Snashall, Beryl A.
Stevens, Shirley M.
Steward, Frank C. N.
Thornton, Ralph
Tong, Alan
Turner, Reginald J. C.
Tyler, Gerald B.
Vasner, Martyn
Wade, Pamela A. M.
(Mrs.)
Watkins, David K.
Watson, Evelyn M.
Wheater, David A.
Whiting, Anthony E. G.
Worth, Audrey

Pharmacist Averts Broadcast Risk.—A gnat-bite "cure" that contained one part carbolic acid and three parts vinegar was disclaimed by the British Broadcasting Corporation nine hours after it had been broadcast in a "Hints for the Housewife" programme on August 6, as a result of action taken by Mr. H. Jarvis Graves M.P.S., 21 The Strand, Exmouth, Devon. Mr. Graves tested the recipe at his pharmacy, and finding that, as he suspected, it raised weals, telephoned the B.B.C. The British Medical Association issued a statement the same day that "medically speaking, the use of carbolic acid in such form and for such a purpose is highly dangerous."

LOCAL NEWS

Discussions on the Levy. — Cornwall Pharmaceutical Committee passed a resolution on July 11 condemning the prescription levy. The levy was held to cause considerable hardship and humiliation to poor and old people and considered "pure class legislation." — At a recent meeting of the Nottingham Executive Council, Mr. P. D. J. Spaanderman, M.P.S., said that chemists received many complaints from the public about the levy.

Prescription Abuse Penalised. — Rochdale Executive Council has been directed by the Ministry of Health to withhold £750 from the pay of two doctors, practising in partnership, for improper issue of prescriptions. The committee found from the evidence that 171 prescriptions had been issued to patients on the doctors' "dispensing list" and for whom a capitation dispensing fee had already been paid by the Executive Council. It was alleged that sixty-three prescriptions had been issued to persons who were not on their lists of patients. Nineteen prescriptions had been issued to persons on other doctors' lists of patients and fifty-four prescriptions had been issued to persons whose names or addresses were indecipherable even after consultation with the doctors.

SPORT

Golf. — MANCHESTER CHEMISTS' GOLFING SOCIETY, Ladies' day at Mere on July 30. Competition for Woolley trophy and prize: W. E. Phillipson, 71; runner-up W. Hibbert, 72. Ladies' putting competition: best returns by Mrs. P. W. Stuart, Miss Avondale and Mrs. Phillipson. Prizes were presented by Mrs. G. S. Woolley.

EDINBURGH CHEMISTS' GOLF CLUB, bogey competition at Ratho Park for D. Brown medal and J. F. Macfarlan prize. 1 (a tie): W. M. Dickson and A. Young, 3 down; 2 (a tie): A. E. Graham and J. A. Smith, 4 down.

OVERSEAS NEWS

Polish ACTH Production. — The Polish pharmaceutical industry recently commenced production of ACTH, chloramphenicol and other drugs that formerly had to be imported.

Isoniazid Manufacture in U.S. — The use of citric acid as a raw material for large-scale production of isonicotinic acid hydrazide (isoniazid) has been announced recently by Chas. Pfizer & Co., Brooklyn, New York.

Centenary Booklet. — A 16-p. booklet entitled "A Century of Gum Leaves," just published, gives the story of J. Bosisto & Co., Pty., Ltd., Melbourne, Australia, 1852-1952. An article on Australian eucalyptus oil appeared in the *C. & D.*, 1951.II.247.

New Zealand Aid to India. — The Minister for Health, Government of India, announced recently that the New Zealand Government had donated £10,000 under the Colombo plan for the technical development of under-developed countries. At the wish of the New Zealand Government, the Government of India had decided to establish an Institute for post-graduate studies in medicine and dental research in Delhi.

Antibiotic Without Side-effects? — Eli Lilly & Co., Indianapolis, Indiana, U.S.A., make the claim to have produced a new antibiotic, Ilotycin, which, under experimental conditions, has shown no signs of having side or after effects. Ilotycin is claimed to be effective against penicillin-resistant organisms in conditions that are amenable to penicillin treatment and against the organisms causing typhus, undulant fever and Rocky Mountain spotted fever. While experiments continue no supplies are available.



SHEFFIELD MEMBERS' WORKS VISIT: Forty members of the Sheffield Pharmaceutical Association visited the works of William Freeman & Co., Ltd., Barnsley, recently and were conducted round the factory. In the group, some of the visitors, including Mr. W. Firth (president) and Mr. W. S. Freeman (managing director of the company).

KEY INDUSTRY DUTY EXEMPTIONS

THE Treasury has made an Order under Section 10(5) of the Finance Act, 1926, continuing from August 19, 1952, until February 18, 1953, the exemption from Key Industries Duty of all the articles exempted from that duty by previous Orders which expire on August 18, 1952, with the following additions and deletions:—

ADDITIONS :

Optical elements, the following:—
 Analysers and polarisers, consisting of a film of polarising material mounted between discs or plates of transparent material
*mono*Acetylacetone
*2-mono*Aminoethyl alcohol
3-Aminophenol
*β-mono*Aminopropionic acid
*iso*Bornyl monothiocyanatoacetate (a bornyl ester)
 Calcium *2*-iodoxybenzoate (an iodoxybenzoic salt)
3-Chloroaniline
*1-mono*Chloro-*2*:*3*-epoxypropane (an epichlorohydrin)
*mono*cyanooacetic acid; *mono*Cyclohexylamine
 a-Dichlorohydrin
 Dicyclohexyl *orthophthalate* (a cyclohexyl ester)
*2-mono*Diethylaminoethyl alcohol
*2-mono*Diethylaminoethyl diphenylacetate hydrochloride (a diphenylacetic ester)
 Di-(*2*-methylcyclohexyl), di-(*3*-methylcyclohexyl), and di-(*4*-methylcyclohexyl) *orthophthalates* (alkylcyclohexyl esters), *n*-Dodecyl alcohol
*mono*Ethylbenzene
 Ethyl *2*-benzoylbenzoate (an ethyl ester)
 Ethylene *mono*chlorohydrin
a-Ethyl-n-hexoic acid (an octoic acid)
 Ethyl *a*-hydroxy-*a*-methyl-*n*-butyrate (ethyl ester)
 Germanium dioxide
n-Heptoic acid
3-Hydroxyacetophenone
L-Malic acid
 Menthyl *mono*ethoxyacetate (a menthyl ester)
D-Methionine; *L*-Methionine; *D,L*-Methionine
 Methyl monocyanooacetate (a methyl ester)
*N-mono*Phenyl-*2*-naphthylamine
 Potassium guaiacol*mono*sulphonate
*mono-iso*Propylamine
 Safrole (not including *isosafrrole*)
R,n-Stearic acid
 Strontium *2*-ethylhexoate (an octoic salt)
 R.Titanium dioxide
2:*4*, and *3*:*5*-Xylenol
2:*6*, and *3*:*4*-Xylydine (amino-xylenes)

DELETIONS :

Optical elements, the following:—
 Analysers and polarisers, consisting of a film of polarising material mounted between glass discs or plates.
 Vacuum tubes, the following:—
 Sealed cylindrical *x-ray* tubes having four windows; two windows.
 Acenaphthene.
2-(p-Acetamido)benzenesulphonamido-pyrimidine (a substituted arylsulphonamide)
 R.Acetone; fermentation; synthetic; acetylacetone
 Aluminium chloride (anhydrous)
2-Aminoethyl alcohol
 Aminophenol (*m* and *p*)
β-Aminopropionic acid
o-Anisidine
*iso*Bornyl thiocyanooacetate (a bornyl ester)
 Butyl alcohol (*sec* and *tert*)
 Calcium *o*-iodoxybenzoate (an iodoxybenzoic salt)
 Carbon disulphide; tetrachloride

m-Chloroaniline
*mono*Chlorobenzene
o and *p*-Chloromononitrobenzene
o-Cresol
 Cyanoacetic acid
 Cyclohexanol; Cyclohexylamine
 Diacetone alcohol
p-Dichlorobenzene (a chlorobenzene)
 Dichlorodiphenyltrichloroethane; dichlorohydrin
 Di-cyclohexyl phthalate (a cyclohexyl ester)
 Diethylamine; Diethylaminoethyl alcohol
2-Diethylaminoethyl diphenylacetate hydrochloride (a diphenylacetic ester)
 Diethyl phthalate (an ethyl ester); Dimethylamine
 Di-methylcyclohexyl phthalate (an alkylcyclohexyl ester)
 Dimethyl phthalate (a methyl ester)
 Diphenyl; Diphenylamine
 Dodecyl alcohol
 Epichlorohydrin; Ethylbenzene
 Ethyl benzoylbenzoate (an ethyl ester)
 Ethylene chlorohydrin
a-Ethylhexoic acid (an octoic acid)
2-Ethylhexyl alcohol (an octyl alcohol)
 Ethyl *a*-hydroxy-*a*-methylbutyrate (an ethyl ester)
 Germanium oxide
 Guanidine nitrate (a guanidine salt); Guanine
 Heptoic acid
m-Hydroxyacetophenone
 Lactic acid; Lauroyl chloride
L-Malic acid
 Menthyl ethoxyacetate (a menthyl ester)
dl, (+), and (−)-Methionine
p-Methylaminophenol sulphate
 Methyl cyanooacetate (a methyl ester)
 Methylcyclohexanol; methylcyclohexanone
 Methylene dichloride
 Methyl methacrylate (a methyl ester)
2-Methyl-2:*4*-pentanediol (a hexanediol)
1, and *2*-Naphthols
p-Nitroaniline; *p*-Nitrobenzoic acid;
2-Nitrodiphenylamine; *p*-Nitrophenol;
p-Nitrotoluene
n-Octoic acid
 Paraformaldehyde
o, and *p*-Phenetidine
 R.Phenol; phenol synthetic
 Phenolphthalein; Phenyl-*2*-naphthylamine
 Phthalic anhydride
 Potassium guaiacol*sulphonate*; metabolisulphite
*iso*Propylamine
 Quinoline
 Safrole
di-Sodium dihydrogen pyrophosphate (a sodium phosphate)
tri-Sodium naphthalene-*1*:*3*:*6*-trisulphonate naphthalenesulphonic salt)
 R.Stearic acid
 Sulphaguinoxaline (substituted arylsulphonamic acid)
 Tetrachloroethylene
 R.Titanium oxide
 Toluene-*p*-sulphonamide
o, and *p*-Toluidine
2:*4*:*6*-Tribromophenol (a bromophenol)
 Trichloroethylene
 Tricresyl phosphate (a hydroxybenzene ester homologue); Triethanolamine
m-4 and *m*-5-Xylenol
m-2 and *o*-4-Xylydine (amino-xylenes)
 Zinc ethylenebisdiethiocarbamate (a salt of substituted dithiocarbamic acid)

The Order is the Safeguarding of Industries (Exemption) (No. 5) Order, 1952 and is published by H.M. Stationery Office, Kingsway, London, W.C.2.

TOPICAL REFLECTIONS

Swiss Pharmacy Laws

Several sets of pharmacy laws are in force in Switzerland, where, writes Mr. Charles Stevens (p. 201), each of the twenty-four cantons of the country "is autonomous in most matters of pharmaceutical legislation." Though the same qualification is accepted in all the cantons, the removal of a pharmacist from one of them to another may well involve considerable study and, if he wishes to own a new business, application for a permit also. This interaction, as it may be called, between the Swiss Federal Government and each cantonal authority must complicate the carrying on of a vocation so specialised as pharmacy. The control of poisons other than narcotics is a case in point. Additions to the short pharmacopoeial list may be made by the Federal Government or by any of those of the cantons. Side by side with poisons of this class there are substances grouped under the title "Separanda." These are, apparently, considered less poisonous than those in the first-named list: they include such diverse articles as squill bulbs and caffeine citrate. A distinctive hexagonal label is provided for "dangerous drugs and narcotics." The control of proprietary articles is simpler. Every article of this kind must be certified by a central organisation; after registration, it is accepted all over the country without further formality. As in Great Britain, the sale of abortifacients is prohibited; but the list of diseases barred from being advertised in this country has no Swiss counterpart. The Swiss central registration authority disallows "any advertising that it considers untrue or unethical." We are much indebted to Mr. Stevens for this excellent survey.

On the Ocean Wave

Adventures enough and to spare, we may consider, have marked the career of Lieutenant-Commander J. Bowman, who on pp. 195-97 describes his experiences as a naval pharmacist in 1940-46. It appears that his duties were of two types—administration of pharmaceutical departments in various hospitals, and issue of medical supplies to ships of the Royal Navy. As an Admiralty pharmacist, Lieutenant-Commander Bowman had many of the privileges of the medical officers with whom he worked. "In the [Hong Kong] Hospital," he writes, "there existed the closest co-

operation with all members of staff, and we enjoyed 'a happy ship'." It would be of interest to know how many thousand miles your contributor covered during his period of service abroad. Already experienced in his work when war broke out, he was well equipped to cope with the many emergencies that arose. To mention China, Australia, Ceylon and Africa as parts of the world visited in the course of Lieutenant-Commander Bowman's duties is to convey only a faint idea of the variety of scene and of difficulty through which he passed. Whatever other prospects the Navy holds out to pharmacists, it can offer the chance of daily or even hourly thrills on the high seas, although for the most part, no doubt, they perform the duty on shore of hard-worked civil officers.

A Balsam and a Pommade

The high-flown advertisement of "Volatile Balsam" quoted on p. 194 from a London newspaper of 1759 was a puff for one of the numerous proprietary articles that have faded out in course of time. Apparently it was a specific of Thomas Greenough's, patented in 1757. Reading the recommendation again after several years, I am interested in the mention of gout in the stomach. About the year 1899 an old physician handed me a prescription which he had just written for this complaint: the chief ingredient was, I think, bismuth oxychloride. Is gout in the stomach still recognised as a clinical entity? With your quotation I may couple one from "Haply I May Remember," by Lady Cynthia Asquith, a book I have just been reading. On p. 119 the author, referring to her early childhood, states: "I remember the faint all-pervasive smell of the then sovereign remedy, Pommadavine. . . ." Presumably the last word is a phonetic spelling of some nurse's pronunciation of Pommade Divine. Not only was this a proprietary article (as it still is, I understand), but it occurs as a recognised medicament in "Pharmaceutical Formulas" Vol. I. The fifth edition of "Beasley's Druggist's General Book" (1861) has two formulas for a non-proprietary Pommade Divine, both containing beef marrow, storax, benzoin, Chian turpentine, orris, cinnamon, clove and nutmeg. If I have not forgotten, the containers of this preparation that passed through my hands were pyramidal in shape.

Xrayser

HEALTH SERVICE COSTS UNDER SCRUTINY

THE third report from the Committee of Public Accounts, session 1951-52, recently published by H. M. Stationery Office (price 1s. 3d.) makes the criticism that little progress has been made in collecting facts on which to base the assessment of (a) remuneration of those employed in the National Health Services and (b) fair and reasonable prices for goods supplied. Before the shilling levy was imposed the Departments had proposed to ask all chemists to agree to an investigation of overhead expenses, but that investigation was not now considered worth while until the effect of the levy was known. The delay is considered by the Committee to be unjustified; the information, properly interpreted, would still be useful.

The Committee is "particularly surprised" to find that the Department of Health for Scotland agreed [June 1951] to arbitration on the remuneration of Scottish chemists without having investigated chemists' profits and expenses. Only where it proved to be impossible to agree terms with the profession in the light of the ascertained facts should arbitration be considered.

It is further pointed out that no investigation has yet been made of manufacturers' costs.

The Committee pleads ignorance of the evidence on which the Departments believe that the prices of drugs are limited by competition; and points out that the Ministry has not tested by cost investigation the prices paid for proprietary preparations, "which are clearly not determined by competition," or for certain special drugs bought from a single supplier or from suppliers who quote identical prices. The view is not accepted that knowledge of costs is of no use unless prices are to be controlled. Obtaining information of actual costs of production appears to the Committee to be the most effective method of testing the reasonableness of any price whose fairness is not clearly established by competition; in that way it might often be possible to ensure fair and reasonable prices without recourse to price control. The Departments are therefore urged to take prompt steps to secure such information about important supplies for the Health Services where there is any doubt if competition is fully effective. It is admitted that negotiations have been begun with the manufacturers of some proprietary preparations, and that reductions have been obtained in the prices of two preparations, with fifteen others under consideration.

INTERNATIONAL BIOLOGICAL STANDARDS

THE report of the fifth session of the Expert Committee on Biological Standardisation of the World Health Organisation, Geneva, December 3 to 8, 1951, has just been published (H.M. Stationery Office, 1s. 3d.). The report shows that a number of new international biological standards were set up.

The committee established as the international standard for diphtheria toxoid, plain, the provisional reference preparation of diphtheria toxoid, plain, and decided that the new standard would serve adequately for the assay of diphtheria toxoids of all degrees of purity. The committee authorised the Statens Serum Institut, Copenhagen, to provide an international reference preparation of diphtheria toxoid, adsorbed. It was authorised to examine a sample of freeze-dried adsorbed toxoid similar to that in use at the Paul Ehrlich Institute, Frankfurt-on-Main, Germany. Assignment of unitage was deferred and it was agreed that the size of a new international unit should be assigned so as to

avoid, so far as possible, any change in the size of existing well-established units. The international unit of tetanus toxoid was defined as the immunising activity of 0.03 mgm. of a newly established international standard for tetanus toxoid.

The existing joint Canadian-British standard for oxophenarsine was established as the international standard for that substance. The committee authorised the National Institute for Medical Research to investigate the necessity for this standard as the chemical constitution of preparations of oxophenarsine were known. The committee considered a request of the International Scientific Committee for Trypanosomiasis Research that standard preparations should be provided for melaminy trypanocides, and decided to establish international reference preparations of two such substances, namely melarsen (the sodium salt of *p*-(2:4-diamino-5-triazinyl-6)-aminophenylarsonic acid) and its polymerised antimonial analogue, designated "MSb," and authorised the National In-

titute for Medical Research to obtain preparations of the two substances and examine their suitability as international reference preparations.

International reference preparations of cardiolipin and lecithin (both provisional) and of penicillin K were also established.

The committee recommended that the Expert Committee on the International Pharmacopœia consider the establishment of a collection of authentic chemicals which would include:—

(a) Biological standards for substances which can

be characterised completely by chemical and physical tests, but which are in demand as authentic chemicals or as convenient standards for biological assay (e.g., androsterone and vitamin A);

(b) standards for chemicals required for some of the assays described in the *Pharmacopœia Internationalis* (e.g., histamine);

(c) authentic chemicals required for purposes of biological research (e.g., cortical steroids).

It was further recommended that the holding and distribution of those chemicals should be carried out by an institute engaged in active research in relevant fields to deal with the problem for WHO.

CHEMICAL ENGINEERING IN AMERICA

THE report has just been published of a team of ten European experts in industrial chemistry (including one British member) who visited a number of American chemical and chemical engineering companies in America recently under the auspices of the Organisation for European Economic Co-operation. Although entitled "Chemical Apparatus in the U.S.A.," the text reviews a wider field, dealing with the technical organisation of the American chemical industry. Emphasis is given to the rôle of the chemical engineer in industrial development, and in a chapter by Dr. O. A. Hougen (Wisconsin University) he says that the chemical engineer is "in a position to act boldly and, departing from the beakers and flasks of the laboratory, to design plants and processes which best satisfy the exacting requirements of science, engineering and economics." The more progressive firms counteract the dangers of specialisation by moving their most promising young chemical engineers round the various sections dealing with research and development, process and equipment design, erection, and plant operation.

A change has come about recently in the education of chemical engineers in America. Nowadays duly selected processes illustrate the application of fundamental principles, whereas formerly such principles were explained in a description of industrial processes. Processes such as chlorination, sulphonation, oxidation, hydrogenation, nitration, amination, etc., are discussed as such, without reference to the previous and subsequent processes with which they are connected in any industrial manufacture. At the present time a more logical method is being developed, based on the transfer properties of the systems and the principles of reaction kinetics. A modern chemical engineering curri-

cum in the United States is divided approximately equally between the following groups of subjects: Chemical engineering; other engineering, including drawing; chemistry; science other than chemistry; humanities and other outside subjects.

The team recommends further attempts to convince European chemical industrialists of the advantages of wider standardisation, and of the value of instrumentation in increasing productivity. The chemical industry should make its requirements clear to instrument makers. The centrifugal extractor is mentioned as having "revolutionised" the manufacture of many antibiotics, and to be now finding wider application in the chemical industry. The team suggests that European chemical plants might reduce heat losses, and thereby ensure higher efficiency, by taking advantage of advanced research work and wide experience of American undertakings. The number of types of plant required could be reduced.

Copies of the report may be obtained from H.M. Stationery Office, price £1.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, August 17

INTERNATIONAL PHARMACEUTICAL STUDENTS' FEDERATION, camp and study tour, Bentham Hall, Cartwright Gardens, London, W.C.1, until August 27.

Thursday, August 21

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Birkenhead, Woodside, at 1.25 p.m. for bus to Chester Cathedral (meet under organ, 2.45 p.m.). Branch photographic competition: Entries (not later than September 15) to, and details from, Miss E. F. Llewellyn, 15 Broadway Avenue, Wallasey, Cheshire.

NEW COMPANIES

POTTER'S (HERBAL SUPPLIES), LTD. (P.C.)—Capital £5,000. William G. Pigot, Bank Chambers, Wallgate, Wigan, and Albert C. Short, subscribers. First directors are not appointed.

CHEMRESEARCH, LTD. (P.C.)—Capital £100. To carry on the business of analytical and consulting chemists, etc. Elli Schmeidler, director. Secretary: J. L. E. Eggert. R.O.: 8 Arthur Street, London, E.C.4.

M.S. CHEMICAL ENGINEERING, LTD. (P.C.)—Capital £100. To carry on the business of technical advisers to the chemical engineering trades; chemical research workers, etc. Michael Steinschlaeger and Adele M. Steinschlaeger, directors. R.O.: 116 Cannon Street, London, E.C.4.

EDMOND WHITWORTH, LTD. (P.C.)—Capital £10,000. To acquire the business of oil extractors carried on at Manor Mills, Millshaw, Beeston, Leeds, as Edmond Whitworth. Henry E. Whitworth, Ian J. Whitworth and Frank I. Whitworth, directors.

BIGNELL CHEMICALS, LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, etc. John B. Bignell and Mrs. May Bignell, 51 Kings Court South, Chelsea, London, S.W.3, directors. Secretary: John B. Bignell. R.O.: 6 Fitzroy Square, London, W.1.

HEHNER & COX, LTD. (P.C.)—Capital £10,000. To acquire the business of consulting and analytical chemists formerly carried on by the late Dr. Henry E. Cox and subsequently by Dr. Julius Grant at 10 Billiter Square, London, E.C.3. Dr. Julius Grant and Charles W. Aylen, directors.

GERRARDSWOOD LABORATORIES, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers and suppliers of bleaching preparations, soaps, perfumery, etc. Edith Grimshaw, Elisabeth J. Hadfield and Annie Dutton, directors. R.O.: Apethorn Works, Apethorn Lane, Gee Cross, Hyde.

ROST RICHARDS, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in patent medicines and proprietary articles, dental and veterinary preparations and drugs, etc. Walter R. Williams-Crowe, White Ben, South Road, Chorley Wood, Herts, governing director.

GLAMORGAN ALKALI AND ACID CO., LTD. (P.C.)—Capital £20,000. To carry on the business of manufacturers of and dealers in chlorine, hydrochloric acid and caustic soda. Malcolm Scott, 1 Bank Buildings, Princes Street, London, E.C.2, and D. D. De Carle, subscribers. The first directors are to be appointed by the subscribers.

Company News

ASPRO, LTD.—Profit of the group for the year, after deducting all charges except taxation, amounted to £590,839 (against £798,952). After providing for taxation and adjusting for prior period charges and credits, and for the profit attributable to minority shareholders in subsidiary companies, the net profit of the group attributable to Aspro, Ltd., was £226,956 (against £280,869).

TOKALON, LTD.—It is understood that internal differences between the directors and shareholders, which resulted in the appointment of a receiver and manager, have been settled, and that, as soon as the necessary steps can be taken, the receivership will be discharged. The company will continue to trade but under a new board of directors, which will include Mrs. R. B. Neal (widow of the founder of the company) and her son, Mr. Z. L. Neal, Messrs. W. F. Lyons and J. Mayhew-Sanders (who is temporarily serving as receiver).

MONSANTO CHEMICALS, LTD.—An agreement has been entered into with three Canadian assurance companies to subscribe privately for cash at par for £3½ m. 5 per cent. unsecured loan stock 1982, the first £1,500,000 of which has been issued to them. The balance of £2 m. is available in stages for issue on the same terms at the option of the company up to December 31, 1954, on payment of a commitment fee at the rate of 1 per cent. per annum up to the time of issue. It is not intended to seek a quotation on any stock exchange. The stock carries interest at 5 per cent. per annum payable half-yearly; an annual non-cumulative sinking fund for the redemption of the stock at par is to commence in 1963 equal to 2½ per cent. or (at the company's option) 5 per cent. of the stock outstanding on July 1, 1962; the company has the option to redeem all or any part of the stock after December 31, 1953, at varying premiums commencing with 110 per cent. up to June 30, 1957.

LEGAL REPORT

Application for Lease Extension.—Plymouth county court judge on August 3 gave his reserved judgment on an application by Boots Cash Chemists (Western), Ltd., under the Leasehold Property (Temporary Provisions) Act, 1951, for a year's extension of their lease of shop premises at 44 Old Town Street, Plymouth, from Mr. A. E. Capps, owner of a jewellery business next door. The judge said that, after losing three of their four Plymouth shops by bombing, Messrs. Boots eventually established themselves at Mannamead, in the Market, at Mutley Plain, and at 44 Old Town Street. Mr. Capps, who lost a shop in Union Street, acquired 43 and 44 Old Town Street in 1941, but having lost his stock in the raids was unable to re-stock both shops, and let one to Messrs. Boots. The Old Town Street branch of Boots had a staff of thirteen, and of these the counter staff under twenty-one years of age and three men at the firm's warehouse would be dismissed if the shop were closed. It was important to remember that Messrs. Boots had new premises under construction, and that they would be ready in July 1953, and he presumed that the Old Town Street and Market branches would then close and the employees move. If, however, the branch were closed meanwhile, the entire dispensing business and much of the other business would be lost to nearby competitors. He was satisfied that Mr. Capps genuinely needed the premises in question for his own business and had no ulterior motive, and believed that the show space essential for a jewellery business was insufficient at present, especially in view of the increased local competition. That was a vital point. Was it reasonable to make the order prayed for? He believed it was. Was the landlord reasonably requiring possession of the premises, or a substantial part of them, for demolition or reconstruction? The work involved structural changes, and therefore, under subsection 3 (c), the application failed. On the question who would suffer the greater hardship, he held that Mr. Capps had discharged the onus of proving that his would be the greater. He therefore announced that the application of Messrs. Boots had failed, and he awarded costs to Mr. Capps. Counsel for Messrs. Boots applied for leave to appeal on the ground that there were one or two points on which he believed the judge

had misdirected himself. In refusing leave to appeal the judge said it would only frustrate his decision to grant such leave.

BUSINESS CHANGES

BRITISH CELLOPHANE, LTD., are removing to 12 Conduit Street, London, W.1, on August 25.

MR. D. MOORE, M.P.S.I., has opened a new pharmacy in Scotch Street, Downpatrick, co. Down.

G. A. & J. E. FRITH, 39 George Street, Richmond, Surrey, are opening a new branch pharmacy at 52 Fife Street, Kingston-on-Thames, Surrey.

THE purchase tax section of the secretaries' office of the Customs and Excise Department is now at King's Beam House, Mark Lane, London, E.C.3 (telephone: Mansion House 1515 (unchanged)).

Appointments

PARKE, DAVIS & CO., LTD., have appointed Mr. H. Richard, M.P.S., manager of their purchasing department.

MONSANTO CHEMICALS, LTD., 8 Waterloo Place, London, S.W.1, have appointed Mr. J. W. Urban their director of overseas relations.

CHILTON ELECTRIC PRODUCTS, LTD., Hungerford, Berks, have transferred their representative Mr. A. Lloyd Thomas to London. Mr. W. E. Garratt will represent the company in Lancs and Yorks.

LOCAL OFFICERS

OFFICERS of Branches of the Pharmaceutical Society and of other pharmaceutical organisations elected recently include:—

Cardiff N.P.U. Branch.—Chairman, Mr. N. E. Rickus; Vice-chairman, Mr. D. P. Howell; Treasurer, Mr. T. H. Hall; Secretary, Mr. B. Steyn, 2 Royal Buildings, Park Place, Cardiff.

Birmingham Association and Branches.—President, Mr. C. McArdle; Vice-presidents, Messrs. F. R. C. Bateson and D. J. Rushton; Treasurer, Mr. G. N. W. Birmingham; Secretary, Mr. D. J. Rushton, 1088 Stratford Road, Birmingham, 28; Social Secretary, Mr. W. F. Norris; Pharmaceutical Society Branch Chairman, Mr. C. McArdle; Vice-chairman, Mr. D. J. Rushton; N.P.U. Branch Chairman, Mr. G. H. Walker; Vice-chairman, Mr. G. Goulding.

DEATHS

ABERNETHY.—In a Belfast hospital, on August 6, following an operation, Mr. Charles Abernethy, M.P.S.N.I. Mr. Abernethy became a registered druggist in 1893 and a pharmaceutical chemist in 1926. He was a past-president of the Pharmaceutical Society of Northern Ireland and had been a member of its Council since 1934. He served his apprenticeship in the pharmacy founded by his father at 232 Albertbridge Road, Belfast, and assumed control of the business in 1912. Mr. Abernethy was a

member of the Ulster Chemists' Association and a vice-president of the Chemists' and Druggists' Society of Ireland. He was an elder of Belmont Presbyterian Church, Belfast, and a Past Master of Galen Lodge 437 of the Masonic Order. He is survived by his widow and a daughter (Miss Cora Abernethy, M.P.S.N.I.) who assisted him in business. At the funeral the Society was represented by Messrs. H. W. Gamble (president), H. H. Cowzer, J. McGregor and H. F. Moore (members of Council); the U.C.A. by Messrs. C. G. Rattie (vice-president) and J. Caldwell; and the Chemists' and Druggists' Society by Messrs. F. Storey (president), F. Boyle and H. McQuitty (secretary).

A friend writes: "Charlie Abernethy was one of the oldest practising pharmacists in Ulster and was at work a day or two before his death. Only a week before he had attended a meeting in Londonderry of the Council of the Pharmaceutical Society of Northern Ireland, to which he gave such long and useful service."

FIRTH.—At Whitby, while on holiday, on August 7, Mr. Walter Firth, M.P.S., 54 Upperthorpe Road, Sheffield, 6, chairman of the Sheffield Branch of the Pharmaceutical Society. Mr. Firth qualified in 1927. Proprietor of a pharmacy at Upperthorpe, Sheffield, he was for seventeen years prior to 1950 (when he had a serious illness) in business in the Firvale district of the city.

MACRAE.—At his home on August 7, Mr. Roderick MacRae, M.P.S., 14A Brayshaw Street, Moss Side, Manchester, 15.



Mr. MacRae qualified in 1913. He is survived by his widow and two sons.

MOUSLEY.—Recently, Mr. Cyril Richard Mousley, M.P.S., 117 Broad Street, Birmingham, 15. Mr. Mousley qualified in 1926.

NICOL.—Recently, Mr. James Nicol M.P.S., East Street, Tollesbury, Maldon Essex. Mr. Nicol qualified in 1920.

RILEY.—On July 10, Mr. Walter Riley M.P.S., 40 Breedon Hill Road, Derby, aged seventy-one.

RUSSELL.—At Scarborough, on July 27 Mr. Joseph Frederick Russell, 7 Mars Grove Road, Edgerton, Huddersfield. Mr. Russell qualified as a chemist and druggist in 1900.

STENT.—On July 30, Mr. Frederick Richard Stent, 8 Argyle Street, Bath, aged eighty-five. Mr. Stent qualified as a chemist and druggist in 1888.

THOMAS.—Recently, Miss Ethel Warner Thomas, Ph.C., 9 The Highway, Bentleigh Melbourne, Australia. Miss Thomas qualified as a chemist and druggist in 1914 and as a pharmaceutical chemist in 1916. She was a life member of the Pharmaceutical Society.

WILKS.—On August 1, Mr. Edward James Wilks, Links House, Bexhill-on-Sea, aged eighty-five. Mr. Wilks was a representative of Thomas Kerfoot & Co., Ltd., London. Mr. Wilks represented the company first in London where he opened its office in Lamb's Conduit Street in 1892, and later took over the representation of a large area in the Midlands and Southwest England. He retired in 1948.

WILLS

MR. E. D. LEWIS, M.P.S., 6 St. Ursula Grove Southsea, left £1,048.

MR. A. CORREY, M.P.S., 37 Old Edinburgh Road, Inverness, left £2,720.

MR. G. H. MOSS, M.P.S., 1 Heathlands Road, Little Sutton, Wirral, Cheshire, left £4,092 (£3,877 net).

MR. W. T. SMITH, M.P.S., Sarum House, High Street, Bembridge, Isle of Wight, left £13,377 (£13,324 net).

MR. C. S. FLETCHER, retired chemist and druggist, 98 Rocky Lane, Eccles, Lancs, left £17,484 (£17,165 net).

MR. J. W. B. JOHNSON, M.P.S., Birkby Cottage, Chapel Street, Robin Hood's Bay, Yorks, left £4,112 (£4,072 net).

MR. J. H. PRICE, 18 Priory Road, Dudley, Worcs (chairman of A. S. Price & Co., Ltd.), left £27,855 (£27,470 net).

INQUESTS

Drank Hair Lotion.—A verdict of accidental death was recorded at an inquest in Belfast recently on a child of one year and eleven months who died after drinking from a bottle of lethane bought as a hair-cleaner.

Another Iron Sulphate Death.—A verdict of death by misadventure was returned at Dartford coroner's court recently on a thirteen-month-old boy who died in hospital after he had taken a number of coated ferrous sulphate tablets which had come within his reach. A pathologist said in evidence that the child had died from acute ferrous sulphate poisoning.

Insecticide in Medicine Bottle. — A verdict of death by misadventure was returned at Hereford on May 30 on a seventeen-year-old boy who drank from a bottle of nicotine insecticide believing it was cough syrup and died almost at once. The boy's mother got the insecticide from a neighbour in a bottle bearing a cough syrup label. The neighbour, a spraying contractor, said he obtained the nicotine in bulk without having to sign the poison register. He explained to the boy's mother the deadly poisonous nature of the liquid. "I had thought of marking the bottle 'poison,'" he said, "but I wondered if I might be laying myself open for supplying someone with poison, so I just told Mrs. Nicholls about it." The coroner stressed the danger of not marking poisons.

Sulphuric Acid Injected.—At a fatal accident inquiry at Glasgow sheriff court on July 31 on a thirteen-month-old baby who died in Royal Hospital for Sick Children, Yorkhill, Glasgow, evidence showed that the child had received an injection of 20 per cent. sulphuric acid instead of absolute alcohol. The acid had been supplied by the hospital dispensary in a bottle labelled absolute alcohol. The medical superintendent said that he found in a cupboard in the dispensary a large green bottle labelled "absolute alcohol," and beside it a bottle similar in colour size marked "sulphuric acid, 20 per cent, poison." The pharmacist in charge said that one of two women assistants on duty had filled the theatre bottle in question and it was not possible to say which assistant. The bottle of acid would in future be kept in another place, and the pharmacist agreed that it would in future be different in appearance from the alcohol bottle.

PERSONALITIES

MR. T. D. WHITTET, Ph.C., D.B.A., A.R.I.C. (chief pharmacist, University College Hospital, London), was successful in the recent London B.Sc. (Special) examination in physiology, obtaining upper second-class honours.

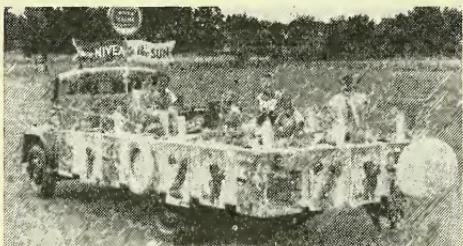
MESSRS. T. M. FRENCH, Northampton, and A. J. SMALLE, Tiverton, who were recently awarded the Jacob Bell Memorial scholarship and Devon and Cornwall Exhibition in pharmacy respectively (see *C. & D.*, August 9, p. 187) were both apprenticed with Timothy Whites & Taylors, Ltd., and studied under the company's training scheme.

MR. R. C. L. GOULD, M.P.S. (chairman, Jersey Branch, Pharmaceutical Society), was during the 1939-45 war chairman of a committee which was appointed by the local chemists' pool to distribute all chemists' wares in the island during the German occupation. Mr. Gould, as manager for the Jersey branch of Boots, Ltd., placed his warehouse and staff at the disposal of the pool and undertook the receipt, storage and distribution of all supplies to chemists' shops. [Corrected note.]

MR. ARTHUR G. SHAW, Ph.C., D.B.A., who was recently elected president of the Guild of Public Pharmacists, has been chief pharmacist at Kingston Hospital, Kingston-upon-Thames, since 1948. Mr. Shaw was educated at Belle Vue High School, Bradford, served his apprenticeship with the City of Bradford Co-operative Society, Ltd., and qualified as a chemist and druggist in 1938 and as a pharmaceutical chemist in 1939 after study at Bradford Technical College. He entered hospital pharmacy in 1939 and has had experience at North Middlesex Hospital and Edgware General Hospital. He gained his Diploma in Biochemical Analysis from Chelsea Polytechnic in 1943. Mr. Shaw has been a member of the Guild council since 1942. He was registrar, 1943-48; deputy secretary, 1947-51; and vice-president, 1946-48 and 1950-52. He has also been a member of the Pharmaceutical Whitley Council since 1948, of the General Whitley Council since 1950, and secretary of the staff side of Committee C of the Pharmaceutical Whitley Council since 1951. He was a member of the Joint Negotiating Committee (Hospital Staffs), 1946-48, and is a member of the County of Surrey Pharmaceutical Committee.

TRADE NOTES

Isoniazid.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce the introduction of Neumandin brand isonicotinic acid hydrazide in bottles of 100 and 1,000 50-mgm. tablets, and in bulk.



Nivea creme tableau entered by Herts Pharmaceuticals, Ltd., Welwyn Garden City, in a recent gala procession held locally. The tableau was awarded a prize.

Address for Dylon.—Mayborn Products, Ltd., manufacturers of Dylon products, is Dylon Works, Berryman's Lane, Sydenham Road, London, S.E.26, and not as previously stated.

British Distributor Sought.—Ac-re Chemical Co., 83 116th Street, Kew Gardens, N.Y., U.S.A., are looking for a distributor in Great Britain for a medicinal speciality. Details are given on another page.

Additional Packings.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have introduced a tube of ten and a bottle of 100 tablets each containing 200,000 international units of potassium penicillin.

Bonus Offer.—From August 1 to September 13 a bonus offer of thirteen to the doz. for Jackson's Febrifuge is made by the manufacturers, George Jackson & Sons, Ltd., Elmo Works, Brewery Street, Manchester, 9.

V.D. Posters.—For reasons of economy the Ministry of Health is not now using national advertisements in support of its educational campaign against venereal disease, but has available two new posters for local display.

Quaternary Ammonium Compounds.—Milton Antiseptic, Ltd., 345 Gray's Inn Road, London, W.C.1, announce that their associated company, Milton Industrial Chemicals, Ltd., have commenced manufacture at their factory at Riddings, Derbyshire, of a wide range of quaternary

ammonium compounds and related products. Cetyl trimethyl ammonium chloride will be made commercially available for the first time in Britain.

Lens Tissue.—General Paper and Board Manufacturing Co., Ltd., Trefores Training Estate, Pontypridd, South Wales, draw attention on another page to the Gleam lens tissue. A vest pocket automatic "dispenser" delivers the five sheets one at a time; the display unit contains forty-eight "dispensers."

Powder Paired With Foundation.—Revlon International Corporation, Grosvenor Street, London, W.1, have introduced a combined pack of their Tou and Glow foundation with a box of face powder specially selected to tone (e.g. "misty rose" with "sweet talk"; rach with "pink lightning").

Holiday Closing.—Thomas Kerfoot Co., Ltd., Bardsley Vale, Ashton-under-Lyne, will be closed for the local annual holiday from normal closing time in the week ending August 16 to Monday morning, August 25. A skeleton staff will be on duty to deal with urgent requirements and the London office at Bardsley House, Upper Street, N.1, will be open as usual.

Flexible Model of Human Skin.—Educational and Scientific Plastics, Ltd., 392A London Road, Croydon, offer to hospitals and schools a four-part model in rubber to illustrate a section from the scalp, showing hair follicles and associated structures, two enlarged papillaries, visible surface of the dermis and surface of the lower part of the epidermis. The agents for Northern Ireland are John Clarke Co., Ltd., 8 Donegall Square West, Belfast.

Christmas Stockrooms.—Goya, Ltd., 161 New Bond Street, London, W.1, are this year holding nine stockrooms, as follows: August 25-29, Royal Hotel, Bristol, and Royal Hotel, Cardiff; September 1-5, Grand Hotel, Birmingham, and Enoch Hotel, Glasgow; September 8-12, Hotel Metropole, Leeds, and Queen Hotel, Manchester; September 15-19, Adelphi Hotel, Liverpool, and Grand Hotel, Brighton; September 15-26, 161 New Bond Street, London, W.1.

Lightweight Diabetic Bread.—A new lightweight "fluted" diabetic bread was introduced at the British Food Fair recently by Procea Products, Ltd., 47 De

street, Shaftesbury Avenue, London, W.1. Each product weighs approximately 5 oz. and is baked in a special tin so that the diabetic subject has twenty-one slices, marked by ridges, to enable him when cutting to ensure a pre-determined weight. It is no longer necessary to weigh slices every time because of variations in thickness.

Guard for Nail Scissors.—Unless kept in a case, nail scissors cannot ordinarily be carried in the pocket. An ingenious scissors-guard, the Fylon, in stainless steel, does more than solve the problem. Besides protecting the points and preventing the scissors from opening in the pocket, it embodies also a nail file. The minimum cost of the Fylon to retailers, tax-paid, is 1.4d. each (no fixed retail price). The attendee is Mr. A. A. Crompton, Brearley Old Hall, Luddenfoot, Halifax, Yorks, who will notify inquirers with the names of wholesalers who are at present carrying stocks.

Anti-infective Lamps.—Philips Electrical, Ltd., Century House, Shaftesbury venue, London, W.C.2, have made available an ultra-violet mercury-vapour tube a much lower cost than hitherto. The tube, similar in shape to 15-watt or 30-watt fluorescent lamps, is in special glass (not quartz) and emits germicidal radiation without passing the rays which produce heat. The tubes are thus suitable for fitting in hospital wards, doctors' waiting rooms, and other public places. They are fitted into reflectors, mounted above eye level, that throw the radiation upwards only. The same or slightly higher ultra-violet radiation intensities can also be used in the prevention of the deterioration of foodstuffs.

Household Cleanser Scheme.—The County Chemical Co., Ltd., Shirley, Birmingham, announce that, as part of a Midlands scheme in the marketing of Chemico household cleanser, personal calls are being made on all wholesalers and jobbers between August 19 and September 12. The following Chemico representatives are taking part: *Wholesalers*: Mr. V. N. Hill (Warwicks (including Birmingham), Worcs and Leics); and Mr. H. Freeman (Staffs, Notts and Derbys). *Retailers*: Messrs. L. M. Lunts (Notts and Leics); J. Gaston (Staffs and Derbys); D. C. Lewis (Worcs and Warwicks (not including Birmingham)); and R. L. Briault (city of Birmingham).

Filters and Artificial Legs Exhibited.—shown at an exhibition in Manchester, re-

cently organised by Vokes Filters, Ltd., Guildford, Surrey, was a range of industrial dust filters based on a newly designed filter-bag system, and successfully in use in plants handling charcoal, quinine, chemicals and cosmetics, etc. Details of the company's sub-micron air-conditioning filter for use in pharmaceutical and fine-chemical laboratories, and operating theatres and similar places were given. An associated company, Vokes Ernst Scientific Surgical Appliances, Ltd., Guildford, showed a range of their light metal artificial legs, which are seamless and are made in one-piece pressings. Knee control mechanism is operated by a knurled wheel.

Presentations.—Band-Aid adhesive dressings featured in an annual presentation at an Oxford cinema on July 31. Mr. S. B. M. King, 27 Sunningwall Road, Oxford, who has made sixty-two blood donations, received a Band-Aid first-aid kit from Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks, as a tribute from the company before the film "Emergency Call," stressing the importance of blood donors, was shown. Sylvia Hill, aged fourteen, 7 Kempson Crescent, Littlemore, winner of a bicycle in a Band-Aid handwriting competition, was next presented with her prize by the cinema manager. The Area Commissioner of the St. John Ambulance Brigade was also at the cinema to receive a presentation first-aid kit for the Brigade. Other kits went to the Oxford Boy Scouts and to the Nazareth Home, a local orphanage.



Mr. R. T. Fulford (a director of C. E. Fulford, Ltd., Leeds) presents cheques to Messrs. W. Richmond, centre, advertising manager, and S. W. Fitzgerald, M.P.S., left, chief chemist, to mark their retirements after respectively fifty-one and forty-seven years' service with the company.

[Photo: "Yorkshire Evening News."]

MACHINERY AND PLANT NOTES

Aluminium Ladders.—Lyte Ladders, Ltd., Rogerstone, Newport, Mon., offer a range of ladders, step ladders, etc., in aluminium for factories, hospitals, etc.

Treatment for Concrete Floors.—Isolament, manufactured by Guaranteed Sanitation, Ltd., 263 Upper Street, London, N.1, permanently dustproofs and hardens concrete floors in one application.

Semi-automatic Carton Wrapping.—With the Strand semi-automatic sleeve wrapper marketed by Charles E. Douglas & Co., Ltd., 86 Strand, London, W.C.2, operators working with reels of heat-sealing material can wrap up to 6 gross cartons per hour. Adjustments for changing from one size of carton to another (up to 12 in. long) are instantly made. The overall dimensions are 3 ft. high by 3 ft. 6 in. x 2 ft.

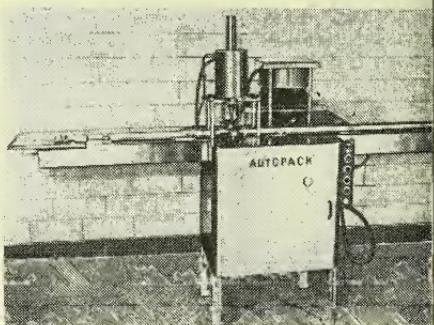
Drying Bottle Caps.—General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, manufacture infra-red plant for drying viscose caps on bottles. The bottles pass on a conveyor through the plant for the necessary time and are immediately ready for packing. The plant consists of two vertical opposing rows of lamps mounted in concentrating reflectors that may be adjusted in height for large or small bottles.

Vacuum Tray Driers.—Apex Construction, Ltd., 15 Soho Square, London, W.1, manufacture a vacuum tray drier (No. 105) with five new features. The drier is lighter and more compact than the older type; is jacketed top and bottom to prevent condensation and to make all shelves usable, the bottom jacket acting as a shelf; have "staggered" sight glasses; can be supplied with stainless-steel-clad shelves and jackets with metal sprayed body interiors; and is standardised to five body sizes only.

Vertical Mixing Unit.—J. K. Innes & Co., Ltd., 4 Laws Lane, Scotch Street, Carlisle, issue vertical mixing units varying in size from 1 to 10 h.p. that can be easily mounted over a vat or mixing vessel for the intimate mixing of free-flowing liquids, maintenance of heavy suspensions, etc. Wooden paddles and mixing posts or stainless steel marine type paddles can be fitted as required. Their Rotamixer is a heavy-duty mixing unit specially designed for arduous duty, such as heavy paste or solid mixing. It is available in two sizes with mixing vessels

of fifty or 150 gall. capacity. The head stock and mixing paddles, which have epicyclic mixing action, can be tilted back for the removal of the vessels from the turntable upon which they rotate in the opposite direction to the paddles to give perfect mixing.

Rubber Stoppering Unit.—Autopack Ltd., Caroline Street, Birmingham, 3, report that a rubber stoppering unit developed by their associates in the Unit-



States aroused great interest at the recent Packaging Exposition at Atlantic City, U.S.A. The machine has an output of up to 120 vials per minute under sterile conditions. Production is being commenced at the works of Autopack, Ltd.

Inspection Speeded Up.—The Triumph inspection belt, manufactured by C. King & Sons, Ltd., 49B High Street, Staines, Middlesex, enables four operators to inspect each day half a million standard items (such as tablets) as they come from the production line. The machine is 8 ft. long, 2 ft. wide, with 2 ft. clear knee room along its entire length. It is fitted with two separate pairs of 4 ft. belts with a reversing device at one end. It is fed by a vibrator feeder of variable amplitude, and a hopper 22 in. sq. by 16 in. deep. Between the belts and outer frame are three flush-fitting reject boxes at each end of the machine. The items are fed from the hopper through the vibrator on to the upper belts, and are first inspected by two operators. At the end of the top belts they are automatically turned over and fed on to the lower belts where they pass along to the other end of the machine to be inspected on the reverse side by two other operators, thence down a chute into bins. Rejected tablets are "flicked" into the reject boxes.



JAPAN'S AGAR INDUSTRY REVIVES

TO a nation like Japan, deficient in natural resources and depending on imported raw materials for the bulk of her exports, the trade in marine products, most of them obtainable in the waters surrounding the islands, is relatively more remunerative than most other export industries from the standpoint of earning foreign currency. Since the end of the 1939-45 war, however, Japan's exports of aquatic products have seriously declined, owing to the loss of nearly all of her former fishing waters, except the Antarctic, where whaling is conducted by special permission.

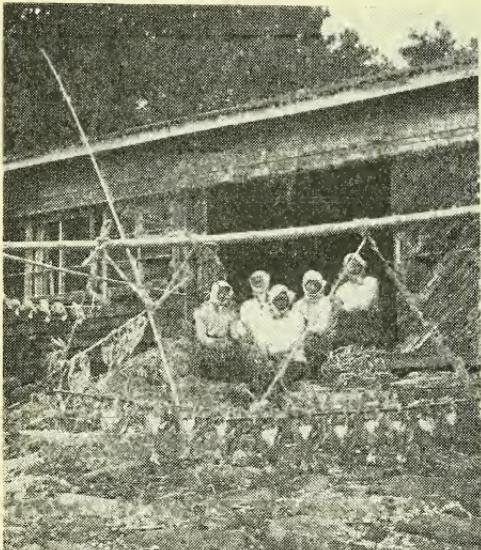
In those conditions, agar has come to play a greater rôle than ever before in the country's export trade. Agar is in considerable demand in overseas markets for its manifold uses, and is at the same time a sea product unique to Japan, with competition from other seaweeds easy to overcome. Already, since the end of the war, agar has come to rank second in the list of marine products for export, the premier position being held by pearls.

Agar, the gelatin-like product of *Gelidium*, and other red seaweeds, is said to have been discovered by chance over 300 years ago by one Tarozaemon Minoya at Fushimi, near Kyoto, in the province then known as Yamashiro. Production developed in the province of Settsu, now known as Osaka, and demand began to rise sharply. Even today, the main production areas in Japan are located in Osaka and Kyoto prefectures, where cli-

mate and topographical features were specially favourable, though seaweeds from which agar-agar is produced are to be found along practically the entire shore. Leading collection centres are Shizuoka (which supplies one-third of Japan's total output), followed in order by Tokyo, Miye, Wakayama, Chiba, Kochi, Ishikawa, Hokkaido, Ehime, Tokushima and Aichi prefectures. Prior to the war, annual collections at one time attained the huge total of 29,000,000 lb. Since 1945, supply has varied between about 1,160,000 lb. and 1,250,000 lb.

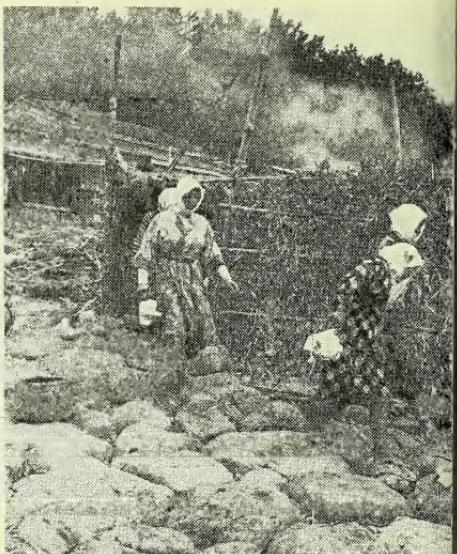
Collection of seaweeds is usually commenced in May, and lasts until September. From about June, the collected algae are sent to the centres of production of agar. Actual production gets under way about December, and operations are continued for about sixty to ninety days, or until about March of the following year. Output of agar naturally fluctuates in accordance with the supply of seaweeds. Output was highest in 1939, when it reached 5,900,000 lb. Output declined sharply as a result of the war, and in 1946 fell to the "low" of 600,000 lb. Since then, output has shown gradual increases, and has passed the 2,000,000 lb. during each of the past two years.

Production is divided into eight stages: Mixing the seaweeds, steeping in water, washing, boiling, filtering, coagulating, freezing and drying, and refining. In the first stage, it is customary to mix several



The "amahs" or diving girls on Matsushima Island who collect agar seaweed from the seabed have sleeping quarters at Sagami Bay. To supplement their rice diet they catch and dry fish (at left of picture).

varieties of seaweed; even with seaweed of a single variety, material collected from different localities is mixed, because they



Setting out from their shelter of rice straw amahs make for the beach where the boats waiting from which they are to dive.

possess distinctive features, the good points of one offsetting the demerits of another.

In the next stage, the material is placed in water tanks. The hard varieties are steeped for 12-20 hours, the soft ones for



The floats are used by the diving girls to hold on to when they come up for air and rest. They exhale deeply with a peculiar whistling sound that has an eerie effect as it carries across the water.



After the day's work on the rocky shore.



The girls leap from the boats feet first, diving to a depth of 18 ft. without the use of weights, to as far as 30 ft. deep when weighted. Nets in which the seaweed is to be collected and wooden floats are thrown into the water before the divers jump.



beached on the



girls change into dry clothes and
built within a grass shelter.



The collected agar-bearing seaweed is spread out on a long bamboo platform to dry. It must be turned at regular intervals.

2-3 hours. All salt and impurities are thus removed. For mixing, about 10 lb. of the material at a time is placed in the mixing tank, where it is rubbed and squeezed for from five to fifteen minutes under running water. That process completed, the material is placed in a small tank with running water, where it is thoroughly cleansed in preparation for boiling. In the boiling, about 400 lb. of the seaweed is placed in about 3,000 litres of water. To speed up the extraction of agar, about 300 c.c. of sulphuric acid is added at the appropriate stage. After the water has been allowed to boil for about an hour, it is kept below boiling-point for about twelve hours.

Pressure Filtration

Filtering is conducted in a tank composed of a filtering cloth, through which the filtered solution is collected in a wooden cask. Boiled liquid and seaweed are together put in the tank, and the mass is filtered by pressure. Coagulation is achieved by placing about 50 litres of the filtered solution into a small wooden tank, where it is allowed to cool. The jelly that results is cut up and placed on the



The dried seaweed is weighed in a shed.



After being weighed the dried material is packed for shipment to the mainland, where it is processed

freezing table and allowed to freeze under the night temperature. During the day time it melts again, but the process is repeated a number of times, until, by the end of a week or so, the major portion of the moisture has been removed. Later, the jelly is exposed to sunlight and wind, and it becomes completely dry. The dried agar is removed to the workshop, where it is properly shaped, and all coloured portions and impurities removed to produce uniform quality.

NORTHERN IRELAND HEALTH BOARD

At the July meeting of the Northern Ireland General Health Services Board, MR. H. W. GAMBLE (president of the Pharmaceutical Society of Northern Ireland) stated that his profession felt that the regulations should be strictly interpreted, so that dispensing by doctors should be for those patients who would otherwise have serious difficulty in having a prescription dispensed by a chemist.

List of Dispensing Doctors

THE SECRETARY stated that the Board had the dispensing lists of doctors continuously under review and that, though no specific formula had yet been found for determining what was "serious difficulty," it was generally accepted as a minimum requirement that to be on a dispensing list a patient must reside more than two miles from a chemist.

The Pharmaceutical Advisory Committee agreed to recommend that the Board should endeavour as soon as possible to find a formula giving full effect to the regulations, and that in the meantime the Board should deal separately with obviously anomalous cases where it was clear that the patient could obtain medicines from a chemist as conveniently as from his doctor.

The Board decided to call for a report from the Medical Advisory Committee on those recommendations.

THE PHARMACIST stated that the Ministry of Health now permitted the production of certain tablets in coloured form or sugar-coated and the Pharmaceutical Advisory Committee recommended the introduction of a similar policy in Northern Ireland.

THE SECRETARY submitted a complaint from a chemist in connection with a prescription for a child for linctus scillæ opacitus, and informed the Pharmaceutical Advisory Committee of the opinion of the Medical Advisory Committee on the matter (see *C. & D.*, July 12, p. 45).

MR. GAMBLE said that it was incumbent on chemists to exercise care. At times it was necessary for a chemist to obtain confirmation from a doctor before dispensing a prescription. The Committee expressed the opinion that if, in the case considered, the doctor had intentionally prescribed an overdose, he should have initialled it. He should also have indicated the age of the child. At the same time, the Committee felt the chemist had acted

unethically in telling the mother that the prescription was incorrect. The Committee recommended that the Board should remind all general practitioners of the desirability of showing on the prescription form, in the space provided, the age of a patient under fourteen years, and that where an overdose was prescribed it should be initialled.

MR. GAMBLE also stated that some doctors in the Belfast area were directing to the nearest chemist on rota duty the majority of the patients seen at their evening surgeries. Very few of the prescriptions were marked urgent to indicate that they were required that evening and it was difficult for chemists to refuse to dispense them during rota hours.

The Pharmaceutical Advisory Committee recommended that a circular should be sent to doctors in the Belfast area pointing out that only patients whose prescriptions were urgently required should be directed to a chemist on rota duty and that the prescriptions should be marked "urgent."

MR. GAMBLE pointed out that the Board had no power to inspect premises or equipment used by chemists on the Board's list. The Committee recorded the opinion that it would be desirable for the Board to have powers of inspection to ensure that reasonable standards were maintained by contractors, particularly as no inspection could be made by the Ministry before issue of a licence to keep open shop as a pharmaceutical chemist. It recommended that the Board should approach the Ministry with a view to those powers being granted.

The Committee also recommended that the present rota schemes in Belfast and Lisburn should continue unchanged but that a number of alterations should be made in the schemes in other towns.

N.H.S. STATISTICS

In WARRINGTON in 1951-52 the pharmaceutical service cost £113,841 against £88,265 for the previous year.

In GLAMORGAN, pharmaceutical services cost £974,968 in the year ended March 31. During 1951-52, 101 tests for medicines and nineteen for appliances were carried out. Of those, seven tests of medicines and one of an appliance were referred to the Pharmaceutical Service Committee.

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NEW SESSION BEGINS 22nd September, 1952

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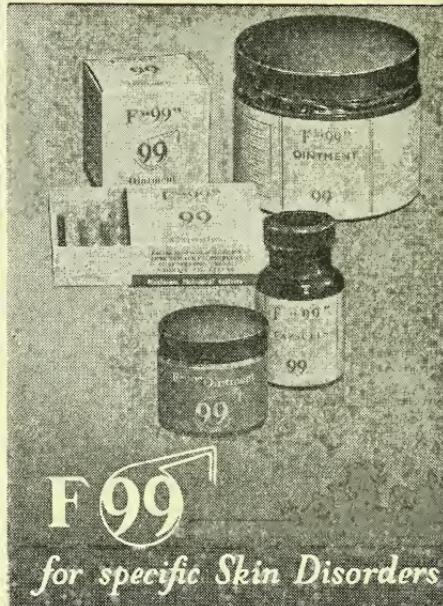
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Official organ of *The Pharmaceutical Society of Ireland*, *The Pharmaceutical Society of Northern Ireland*, *The Chemists' and Druggists' Society of Ireland* and of *other Chemists' Societies in the Empire*.

VOL. CLVIII August 16, 1952 No. 3782

Chemical Engineers and Industrial Expansion

THE European experts who visited America to study chemical apparatus and plant have produced a voluminous report (p. 215) despite the fact that they visited only twenty factories.

One important point to which they draw attention is the value the chemical engineer has proved to have in American industry. To him, in fact, credit is given for the immense growth of the industry, as indicated by the fact that, in 1949, two-thirds of the world's production of synthetic organic products were made in America, whereas before 1917 the American chemical industry was comparatively undeveloped by comparison with Europe, and particularly Germany, where large quantities of chemical products were at that time already being produced. It is noteworthy that training of chemical engineers in America has recently changed. Specialisation tends to arise in industry, but there is an awareness of the dangers of too great specialisation. From the report it appears that, whereas formerly the growth of the petroleum industry forced America to develop her chemical engineers, now the development of the antibiotic industry is having a no less significant effect on the planning of the chemical industry. A warning is given that leaders of European industry would be committing a serious error in seeking solely to increase specialisation, or in following the American pattern of distribution of labour. The whole staff of an

undertaking must be convinced that complete co-operation between the various services is indispensable.

A New Approach to Service Pharmacy?

THE war-time experiences and achievements of a pharmacist of fairly modest rank in the Senior Service (*C. & D.*, August 9, p. 195-97), show up sharply the extent to which pharmaceutical man-power is neglected, especially in the other two Services. In matters pharmaceutical the Navy has its own way of doing things, relying in peace-time, in its larger medical establishments, entirely on civil-officer pharmacists (some of whom received commissions for special duties during the 1939-45 war). The question poses itself whether a similar set-up could be adopted by the Army and Air Force. At least the method might bring to an end in compromise and face-saving what appears to be a perpetual stalemate. It might also raise Service pharmacy to a higher and more appropriate level. Eventually, of course, the question whether or not pharmacists shall automatically have officer status, especially in war-time, must be answered. The pros and cons have been well canvassed, with cons even in pharmacy's own ranks, but many precedents exist in the armies of other countries of pharmacists being granted commissions automatically. In Britain there is humiliation in the knowledge that no representative of pharmacy exists of sufficiently high rank to qualify for attending international conferences on military medicine. Members of the Society cannot remain for ever quiescent in the present state of affairs.

Assessments for Rating

THE nationwide revaluation for rating purposes of shops and premises was recently postponed again (see *C. & D.*, May 17, p. 680), and in the meantime it must be expected that proposals for the alteration of existing assessments will go forward.

The chief grounds for proposing an alteration are a change of circumstances, a change of value, or improvements to the premises. The proposal may be put forward not only by the ratepayer concerned, but also by the valuation officer himself.

Whether made by the ratepayer or by the valuation officer, the proposal must be in writing, must specify the grounds on which the proposed alteration is required to be made, and must also state whether an increase or decrease in the valuation is desired. It does not appear essential to state the figure from which the valuation is to be increased or lowered. A ratepayer who desires an alteration in the rateable value of his premises must make his proposal to the valuation officer, and the latter, if he does not agree, will send notice of objection. To proceed further in the matter, the ratepayer must lodge with the local valuation court an appeal against the objection, and the notice of appeal must be served within twenty-one days of receipt of the notice of objection. The applicant may appear himself before the local valuation court, and if he intends to do so should apply to the local valuation court for a form of notice of appeal. The notice of appeal must be served both on the objector and on the rating authority. If the objection has been put forward by some person other than the valuation officer, the valuation officer must also be served with notice of the appeal.

Though there is nothing to prevent a person from conducting the appeal himself, it is desirable that, at the hearing before the local valuation court, the applicant should have the assistance of an expert rating surveyor. No costs are awarded to either side in proceedings before a local valuation court. But the matter can be taken further by appeal to the Lands Tribunal. In the proceedings before that tribunal, costs will generally be awarded to the successful appellant or respondent. The liability of an unsuccessful party for the payment of the costs of the opposite party will depend to some extent on whether he has brought the appeal unsuccessfully before the local valuation court, or whether he has been made respondent to the appeal after having been successful before the local valuation court. Where the party is not the appellant, he will generally be allowed costs if the appeal fails, no order for costs will be made against him if the appeal

succeeds. On the other hand, an appellant against a decision adverse to him in the lower court will get costs if he succeeds in the appeal. Should he fail he will be ordered to pay the costs of the valuation officer, and that order will be made even though the appeal has been conducted in person and not by solicitors or counsel. Costs, however, are at the discretion of the tribunal.

Where the valuation officer proposes to increase the rateable value of premises the ball will again start rolling with the making by the valuation officer of a proposal for the alteration. That proposal will be served on the ratepayer. Immediately upon receipt of such a proposal, the intending objector should write to the valuation officer stating that he intends to object to the proposal, and requesting him to forward a form for the purpose of making objection to the proposal. The grounds for the objection should be stated on the form and it should be transmitted to the valuation officer. If the valuation officer desires to take the matter further he will serve notice of appeal to the local valuation court, from which court the appeal will be a right of appeal to the Lands Tribunal. The matter can go to the Court of Appeal on a question of Law.

Nitrofurazone in Coccidiosis

A SERIES of controlled experiments evaluate the treatment of coccidiosis with nitrofurazone has been described by Holden-Smith and Long ("British Veterinary Journal," 1952, 108, 47). Preliminary investigations were made to check the importance of riboflavin in the diet and no significant difference due to its presence or absence could be observed. Nitrofurazone proved to be a valuable means of controlling established coccid infections when fed to chicks at a concentration of 0.022 per cent. for seven days. At a concentration of 0.11 per cent. for ten days the drug was found to be effective in preventing the disease in chicks kept on heavily infected litter. The authors suggest that where there is a history of cæcal coccidiosis on a farm treatment with nitrofurazone may be used when chicks are put into new quarters.

SUN, MOON, AND ALCHEMY

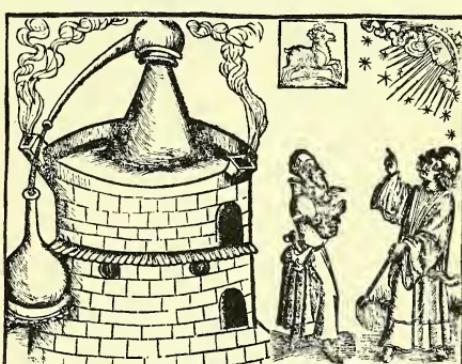
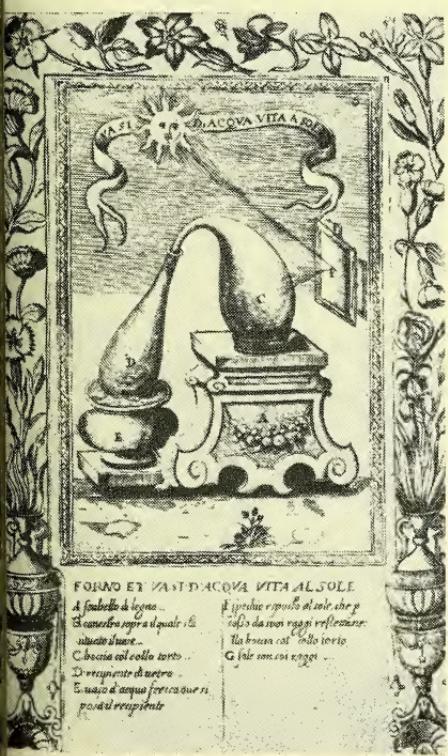
AN exhibition having the title "A Hundred Alchemical Books" is open at the Science Museum, London, until September 21.

The primary aim of alchemy—to convert base metals into gold by means of a "philosopher's stone," supposed to be formed by the "marriage" of gold and silver—is symbolised by two ivory figures representing the sun and moon (the alchemical gold and silver) (illustrated top left and

right). The books are finely illustrated. A plate from Donata d'Eremita's *Dell'elixir Vitæ* (Naples, 1624) showing apparatus for distilling *aqua vitæ* by the aid of

the sun's rays—a process supposed to give peculiar efficacy to the product—is reproduced at left below. The fourth illustration represents distillation (from *Liber de Arte Distillandi de Compositis*, by Hieronymus Brunschwyg, 1512) which was carried out at a chosen time—in the sign of Aries (March-April), the influence of the moon and stars being symbolised in the right hand top corner.

Because a requirement for the formation of "philosopher's stone" was the presence of "philosopher's mercury," a sort of condensation of the universal spirit, believed to be present in all things, the alchemists tried to obtain that material by distilling various substances, including their own preparations of mercury, sulphur, arsenic trioxide, alcohol, and nitric



and sulphuric acids. Distillation apparatus is in consequence continually figured by alchemists, and seems to have been their invention. In their quest they invented almost the whole of the chemical apparatus used before the middle of the eighteenth century and are regarded as the fathers of laboratory technique.

The exhibition is open: Weekdays, 10 a.m. to 6 p.m.; Sundays, 2.30 to 6 p.m. Admission is free.



CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

Danger from Returned Empties

SIR.—On behalf of the æther makers, we wish to bring to the notice of all users the serious risks involved in allowing metallic sodium to remain in bottles that have contained æther or other inflammable solvent. This extremely careless habit is a great source of danger in the transporting and washing of the bottles. Accidents have occurred recently that might well have had disastrous consequences. We should be grateful if those concerned would pay particular attention to this matter.

Ilford, Essex. HOWARDS & SONS, LTD.

Shop Hours

SIR.—In connection with the subject of shop hours raised in Parliament recently (*C. & D.*, August 9, p. 183) I would say that retail shops are open to the public for too short hours, particularly now that so many close for sixty to seventy-five minutes in the middle of the day. It is not only very inconvenient to the public, but is in restraint of trade. It encourages a small turnover of goods at high prices, rather than a larger volume of goods sold at reasonable prices, and for that reason is certainly one of the reasons of the high cost of living.

London, S.E.1.

H. LATTIMER.

Lack of Support

SIR.—We are in full agreement with the remarks of "Scottish Chemist" in your correspondence columns (*C. & D.*, July 26, p. 118). We feel, however, that he does not tell the whole story. There is a precedent for united action similar to that with a laxative in the early C.F. days, but it is unlikely that chemists will give wholehearted support. Most chemists do not care. Our own experience is confined to ethical products, which are not involved. We endeavoured to formulate a policy that we hoped would have the backing of chemists. Response, however, has been disappointing. Our medical representative reports that in two towns recently doctors complained of the difficulty in getting our products, though we know that the principal wholesalers carry stocks. Can you blame manufacturers?

FORSTERS (PHARMACEUTICALS), LTD.
Seaham, co. Durham.

Pharmacists in the Forces

SIR.—May I congratulate you on putting on record the story of a pharmacist who served the war effort as a pharmacist but in rather unusual circumstances (*C. & D.*, August 9, p. 195-97). As one who also served as a naval pharmacist but in much humbler capacity I was particularly interested. While some of the duties I fell to certain lesser fry among those civilian officers seemed at times hardly worth while on looking back one is satisfied that I served his country as a sort of medical stores officer at least as profitably as would have done in other niches in which chance might have carried him. In addition we probably helped by our office hold up the name of pharmacy among representatives of a number of allied professions.

EX-PHARMACIST (T).

Soft-drinks Bottles in the Pharmacy

SIR.—My attention has been drawn to your editorial comment "Bottles for Wrong Purposes" (*C. & D.*, July 12, p. 49). After mentioning a tragedy that had occurred owing to the use of a wrong bottle, you criticised the assertion by the National Pharmaceutical Union of "the right of its members to use beer and mineral water bottles as containers for medicinal liquids." I congratulate you on your statement that the alleged attitude of the National Pharmaceutical Union is wrong on grounds of reason and common sense, and I hope the rest of this letter will be construed, therefore, not as a criticism of your journal but as a clarification of facts. I recently corresponded with the secretary of the National Pharmaceutical Union on this matter, dealing specifically with a case in which a chemist filled a branded soft-drinks bottle with a poisonous substance and put on the bottle a label bearing a false name. I expressed the view, backed up by a series of cases and counsel's opinion, that if the chemist actually applied his label to the bottle in such circumstances, then as the bottle bears the brand name of a soft-drinks manufacturer, an offence against the Merchandise Marks Act would have been committed. The National Pharmaceutical Union did not accept that contention, but indicated that while not accepting it they had every sympathy with

object. I think, therefore, that on this it should be understood that the National Pharmaceutical Union is opposed the use of soft-drinks bottles, or indeed of food containers generally, for containing other liquids. To this extent, before it is not quite accurate to say the Union "assert the right to use." should be remembered in this connection that cases have been known where the label has come off the bottle and the contents have been drunk in mistake for a soft drink. I can cite at least one fatality in such a cause. While, however, this Association and the National Pharmaceutical Union agree on its "undesirability" disagree on its "illegality." We contend that the practice is illegal. What can be no doubt about is that, as a branded soft-drinks bottle is sent out the soft-drinks manufacturer on deposit, remains that manufacturer's property or bailor of the bottle, and it would clearly be actionable in a civil court (as opposed to "illegal") for a chemist or any other person to put his own product in the bottle and sell it. There is ample case law for assertion, it being a simple application of the law of bailor and bailee. No-one, however, wants to threaten prosecutions for illegal use or actions for damages and injunctions to restrain user. While asserting our right, particularly our ownership of our bottles, we appeal for the co-operation of your readers in refusing to fill soft-drinks bottles brought in by customers.

London, W.1 K. PENN, *Secretary.*
National Association of Soft Drinks
Manufacturers, Ltd.

SIR,—The brevity of the report which issued of discussions at a meeting of N.P.U. Executive Committee on the use and misuse of branded beer and mineral-water bottles as packings for non-food products has, unfortunately, given rise to a complete misconception of the N.P.U.'s attitude to such use. The practice of using mineral-water or beer bottles as packings for household fluids is, in the N.P.U. view, highly undesirable and potentially dangerous; further, the N.P.U. has consistently on many occasions in the past advised members, both individually and collectively, in no circumstances themselves to supply mineral-water bottles or beer bottles as packings for household fluids and, wherever possible, to avoid using such containers for household fluids where the container is brought in by a member of the

public. That that was and is N.P.U. policy was made clear to the Brewers' Society and to the National Association of Soft Drinks Manufacturers in correspondence with those organisations in April. The only point at issue between the N.P.U. and those organisations was whether the use of branded beer and mineral-water bottles as packings for household fluids is "illegal." The organisations had circulated a notice contending that such use was "illegal" and laid the alleged offenders open to the risk of "proceedings being taken against them." There have been occasions in the past when N.P.U. members, having supplied a household fluid into a beer or mineral bottle brought in by a customer, have been threatened with proceedings by local trade-protection societies in the licensed and mineral-water trades, and have been asked to give a written apology and an undertaking as to future conduct. Since, in our view, no offence in the legal sense is committed by such misuse of bottles, we have always advised our members not to submit to such threats. In consequence, when it came to our notice that the national organisations were alleging illegality, we wrote challenging their contention. The N.P.U. opinion, and that of the national organisations on this alleged "illegality" still differ, but on the general question of whether branded beer and mineral-water bottles should ever be used in pharmacies as containers for products other than those for which they were produced there is complete identity of opinion. Such misuse of food containers is wrong in principle and in practice.

London, W.C.2. H. NOBLE, *Secretary.*
National Pharmaceutical Union.

"Scurvy" Conduct

SIR,—As one of those who attended the Branch Representatives' meeting of the Pharmaceutical Society held in London recently, I would earnestly call the attention of my fellow members then present to the scurvy trick being put over by the Society in its "Suggested Code of Professional Conduct." At the meeting mentioned, the item relating to "Pharmacists and Drug Stores" (Number 7 in Code) was heavily and decisively defeated, and for the Society to reintroduce the subject after such a rebuff is nothing short of an insult to the intelligence of all who were present. All pharmacists employed by companies are definitely in danger of losing their liveli-

hood if this dangerous regulation gets passed, and I hope this possibility has been realised by all concerned. Note also that the final draft will be submitted to the Council, whose views on the matter are already sufficiently well known. Get to your next Branch meeting, fellow "about-to-dies," and kick hard and often. Don't for Heaven's sake leave it to "some other chap." This needs *your personal attention!*

SANDY MACSNEESH.

Ergot Prices

SIR,—Your recent reference (*C. & D.*, July 26, p. 125) to the market for ergot has aroused controversy between us and some of our customers in the Low Countries and elsewhere. Whilst we do not challenge the

figures given, we think we must fill in the background to show why it is so difficult to quote firm prices. Nobody should speak of a "market price" for ergot because every transaction to do with the drug is literally a gamble. The buying of amounts worth 1s., £1, £5, £10, or even £50 is a daily occurrence in this area in the north of Portugal, as well as in the bordering Spanish province of Galizia. Grocers, who barter

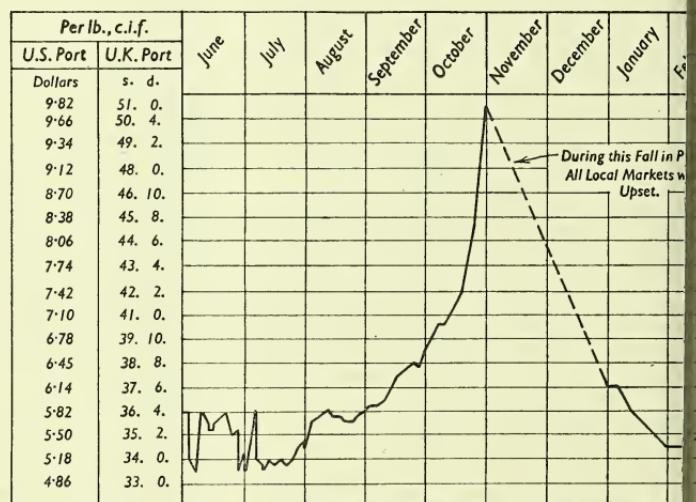
ergot in their shops, doctors, druggists, well-to-do farmers, and even farm and factory labourers all "take a chance" in buying and selling ergot. Some do it as a kind of sport, and others to try and make money. For instance, three workers from a cotton mill sitting after work in an *adega* (wine cellar) may begin to joke about the imaginary money they could have made with ergot if they had taken a chance last year. At the end of the talk they decide to risk their savings on a bag of ergot this year and set off to the market square to buy it. The "ergot fever" overtakes people of all social classes in our countryside. Exporters have tried to create steady conditions in the past, but without success. A policy of waiting until

the speculative centres begin to indicate prices might help the importers sometim

SHIPMENTS OF ERGOT FROM OPORTO

Month	Great Britain	U.S.A.	Switzerland	Germany	Low Countries	Others
1951	kilos	kilos	kilos	kilos	kilos	kilos
July	8,467	6,893	9,169	1,531	1,060	5
August	29,064	3,266	20,593	2,541	2,040	2,1
September	15,901	2,068	32,529	8,457	2,324	2,3
October	1,331					7
November	13,711					7
December	2,621		12,295			4
1952						
January	1,555	2,738	3,122	306		1
February	805	11,361	12,799			3
Total . . .	73,455	26,326	93,048	14,718		6,6

but there is no central market. The w feature in the business is that some of



wealthier holders will not sell even when the season is ending. They hope that the following crop will be short and that after mixing, they will be able to make extra money. In such conditions, is it not to be expected that export prices constantly oscillate? We enclose a graph we have compiled, illustrating the prices received by Oporto shippers during the period from June 1951 to February 1952. The zig-zag in June and July should be set against the peaks in October. We also supply a table (see top of column) giving the quantities exported and their destinations.

Oporto, Portugal. TH. KOLBE & CO.

The C. & D. Refresher Course is over for a week.

TRADE REPORT

t quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

London, AUGUST 13
ILE markets generally continued
et, reflecting at least in part the
et of the holiday season, two notable
tions occurred in pharmaceutical
icals during the week. An announce-
t by the Ministry of Materials on
ust 8 of a reduction in the price
ZINC metal was followed three days
r by zinc oxide manufacturers' an-
ncing a reduction of £9 per ton in
rice of that commodity. Other ZINC
ounds have fallen correspondingly.
chief factor in the supply position
the metal recently is understood to be
traction in demand caused by the steel
ke in America. Although the strike
been settled, producers seem doubt-
whether the expected revival will
dy the markets. During the week, how-
r, the price in America (see below) rose,
the (British) Ministry of Supply
ounced on August 12 an automatic in-
ase in the price of the metal by £4 per
operative from August 13. The small
ease is not expected, by itself, to affect
rice of the OXIDE announced on Aug-
11, before its normal review by the
uafacturers in about a month's time,
then there may be no occasion for
ge. NICOTINIC ACID also fell in price
10s. per kilo and its derivatives, NICO-
AMIDE and NIKETHAMIDE, fell cor-
espondingly.

CRUDE DRUGS have been particularly
et. New-crop ERGOT has been a little
er in price and BENZOIN (Sumatra and
m almonds) also fell by about 10s. per
. and 2s. 6d. per lb. respectively. Bel-
ian VALERIAN has been scarce, but the
ian variety has eased. GUMS have
tained their price at the previous
k's level. Demand for RHUBARB has
n dead.

A number of movements, chiefly down-
ard, took place in ESSENTIAL OILS.
ion CITRONELLA fell by one penny and
CALYPTUS by threepence per lb. The
ce of PEPPERMINT is uncertain, as re-
t demand has resulted in a general
ering of stocks. The Minister of Food
ounced on August 9 that no change is
be made in the prices of unrefined oils
fats and technical animal fats allo-
to primary wholesalers and large trade
rs during the four-week period ending
tember 6, or in the prices of refined oils
imported edible animal fats during
eight-week period ending October 4.

S. Drug and Chemical Report

NEW YORK, AUGUST 12
ERE were no outstanding developments

in the American chemicals market in the
past week, and values were only slightly
affected except for adjustments in ZINC de-
rivatives and some easing in MENTHOL and
ESSENTIAL OILS. SODIUM CHLORATE is eas-
ing from its tight supply situation with the
passing of the weed control season. ZINC
dust slipped down by 1½ cents to 77 cents
per lb., after the recent zinc metal decline
and ZINC OXIDES were also reduced, but
faced a readjustment following firming of
the zinc market on August 11. The spot
price rose by ½ cent per lb. on August 12.
Brazilian MENTHOL fell another 15 cents to
\$5.85 per lb., and Chinese MENTHOL was also
at \$7.05 with little business in either. In
OILS lower per lb. were BERGAMOT at \$14.75
(25 cents down); natural bitter ALMOND,
FPA, at \$2.75 (20 cents down); Ceylon
CITRONELLA at 62 cents (6 cents down);
and Bourbon VETIVERT at \$22.00 (\$1
down).

Exchange Rates on London

Rates at the opening on Wednesday
morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97½
Amsterdam ...	Florins to £	10.50—10.72
*Bombay ...	Shillings to	
	rupee	1/5 11/16—1/6 1/8
Brussels ...	Francs to £	139—141
Copenhagen ...	Kroner to £	19.20—19.48
Dutch West Indies	Florins to £	5.24—5.32
*Hong Kong ...	Shillings to \$	1/2 3/4—1/3
*Israel ...	£1 to £	994—1004
*Karachi ...	Shillings to	
	rupee	2/1 3/4—2/1 1/8
Lisbon ...	Escudos to £	79.90—81.10
*Montreal T.T. ...	Dollars to £	2.70½—2.70½
New York T.T.	Dollars to £	2.78—2.82
Oslo ...	Kroner to £	19.85—20.15
Paris ...	Francs to £	972—988
*Singapore ...	Shillings to \$	2/3 1/8—2/4 1/8
Stockholm ...	Kronor to £	14.37—14.60
*Teheran ...	Rials to £	89.40—91.00
Zurich ...	Francs to £	12.14—12.35

*Free market rates; remainder Bank of England.

Pharmaceutical Chemicals

ADRENALINE.—B.P. is from 1s. 3d. to
1s. 10d. per gm. as to quantity.

ALUMINIUM HYDROXIDE.—The B.P.C.
dried gel is from 6s. 9d. to 7s. 9d. per lb.,
as to quantity.

AMIDOPYRIN.—In 1 cwt. lots the price
is from 32s. 6d. to 35s. per lb.

AMMONIUM CHLORIDE. B.P. — Makers
quote 1-cwt. lots at 61s. 6d.

BRUCINE.—ALKALOID is from 1s. 8d. to
1s. 9½d. per oz., and NITRATE and SUL-
PHATE from 1s. 7d. to 1s. 8½d. per oz., as
to quantity.

CALAMINE.—Reduced. Rates per lb. are as follows:—1-cwt. lots, 2s. 5½d.; 28-lb., 2s. 9½d.; 7-lb., 3s. 1½d.

CALCIUM CARBONATE.—B.P. is £28 per ton, delivered U.K.

CALCIUM GLUCONATE.—Quantities of 3 cwt. and upwards are quoted at 4s. per lb.; 1 cwt. to 2 cwt., 4s. 1d.; smaller quantities, up to 4s. 4d. per lb.

CARBON TETRACHLORIDE.—In 1-2 carboy lots, B.P. grade is £120 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £76 per ton; 1 ton and under 2 tons, £74 10s.; 2 tons and under 4 tons, £74; 4 tons and upwards, £73.

CHLORAL HYDRATE.—In 1-cwt. lots the price is from 4s. 1d. per lb. as to holder.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CINCHOPHEN.—1-cwt. lots are quoted at 24s. 9d. per lb., with smaller quantities up to 27s. 9d. per lb.

CITRATES.—Rates (per lb.) are as follows:—POTASSIUM, 1-cwt. lots, 4s. 1½d.; 28-lb., 5s. 1d. SODIUM, 1-cwt., 3s. 6½d.; 28-lb., 4s. 5d. (powder of both salts one penny more). CALCIUM, 1-cwt., 4s. per lb. IRON and AMMONIUM, granulated, 1-cwt. 4s. 5½d.; 28-lb., 5s. 7d. (Scales are three-pence per lb. more).

COCAINE.—Rates per oz. are as follows: ALKALOID and SALICYLATE, bottles ½-oz., 27s. each; ½-oz., 53s. each; 1-oz., 104s.; 4-oz., 103s.; 8-oz., 102s.; 16-oz., 101s.; tins, 25-oz., 100s. HYDROCHLORIDE and NITRATE, bottles, ½-oz., 24s. 6d. each; 1-oz., 48s. each; 1-oz., 94s.; 4-oz., 93s. 3d.; 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz., 90s. 6d.

CREAM OF TARTAR.—Rates for the home trade are as follows:—1-ton lots, 231s. per cwt.; 10-cwt., 232s.; 5-9-cwt., 233s.; 24-cwt., 234s.; 1-cwt., 235s., delivered.

ETHER.—Prices of TECHNICAL, B.S.S. and SOLVENT, B.P., in winchesters are (per lb.) as follows:—10-cwt. lots, 2s. 5½d.; 5-cwt., 2s. 6½d.; 48-lb., 2s. 7½d.; 24-lb., 2s. 9d. Rates for ANÆSTHETIC, B.P., in winchesters are:—10-cwt. lots, 3s. 9½d.; 5-cwt., 3s. 10½d.; 1-cwt., 3s. 11½d.; 72-lb., 4s. 0½d.; 36-lb., 4s. 2½d.; 24-lb., 4s. 4½d. In 1-lb. bottles, prices are 2½d.; in ½-lb. bottles, 7½d.; and in ¼-lb. bottles, 1s. 4½d. per lb. more than the above prices. In drums, prices are 1½d. per lb. less than corresponding winchester prices. Containers are charged and are returnable.

FORMALDEHYDE.—B.P. solution is 34s. per cwt.

HYOSCINE HYDROBROMIDE.—Quotations are from 90s. to 95s. per oz., according to quantity, for British material.

MAGNESIUM SULPHATE.—B.P. crystals in minimum 1-ton lots are £17 10s. per ton; packed in paper-lined bags.

MERCURY DERIVATIVES.—Quotations (per lb.) for 1-cwt. lots are: AMMATED, B.P., lump or powder, 20s. PERCHLORIDE, B.P., powder, 18s. SUBCHLORIDE, B.P. (calomel), 20s. OXIDES, B.P.C. levigated, or yellow 1 21s. 3d.

NICOTINAMIDE.—Reduced. Prices kilo are as follows:—500 gm. and 1 kilo, 142s. 6d.; 1-10 kilos, 140s.; 2 kilos, 135s.

NICOTINIC ACID.—Reduced. Prices kilo are as follows:—In lots of 500 and under 1 kilo, 97s. 6d.; 1-10 kilos, 95s.; 25-50 kilos, 90s.

NIKETHAMIDE.—Reduced. Prices kilo are as follows:—500 gm. and 1 kilo, 122s. 6d.; 1-10 kilos, 120s.; 2 kilos, 115s.

OLEIC ACID.—Prices for B.P. are 1s. 7d. to 2s. per lb. and technical 1s. 5d. to 1s. 10d. per lb.

PHENYTOIN SODIUM.—Quotations small quantities are at about 32s. 6d. lb.; the base is available at the same price.

SANTONIN.—Scarce. The following minimal prices apply in the home market, including Eire:—5-kilo lots, £96 per 2.4-kilo lots, £97 10s.; 1-kilo, £99; gm., £100 10s.; 250 gm., £102; 100 £103 10s.; smaller quantities, £105.

SODIUM SULPHIDE.—Prices are as follows:—ANHYDROUS powder, in 4-ton £58 15s. per ton, packed in 1-cwt. drums. Pea CRYSTALS (photographic) 4-ton lots, £36 17s. 6d. per ton in kegs or £28 12s. 6d. per ton in 1-cwt. Surcharges: 2 tons, 10s.; 1 ton, £1 cwt., £2; 5 cwt., £3; 1 cwt., £6 more above rates.

STRYCHNINE.—Current rates per oz. given in the following table:—

SALT	Under 25 oz.		25 oz.		100 oz.		500 oz.
	s.	d.	s.	d.	s.	d.	
ALKALOID, B.P.C.	7	10	7	8	7	6½	7
BISULPHITE ...	6	8	6	6	6	4½	
HYDROCHLORIDE, B.P.	7	5	7	3	7	1½	7
NITRATE, B.P.C. ...	7	5	7	3	7	1½	7
PHOSPHATE ...	8	6	8	4	8	2½	8
SULPHATE, B.P.C.	6	11	6	9	6	7½	6

Special discounts for large buyers. In 5-cwt. drums prices are 1s. per lb. less than above. Terms: Net, delivered nearest railway station in Great Britain; drums charged extra and returnable.

ZINC CARBONATE.—B.P. Reduced. Rates per lb. are as follows:—1-cwt. 2s. 5d.; 28-lb., 2s. 9d.; 7-lb., 3s. 1d.

ZINC OXIDE.—B.P. Reduced. Rates lb. are as follows:—1-cwt. lots, 2s. 28-lb., 2s. 4½d.; 7-lb., 2s. 8½d. Quantities, per ton: 2-ton lots, £157 ton, £158; 3-cwt., £160; less than 3 £163.

Crude Drugs

GAR.—Firm. Kobé No. 1 forward is 6d. per lb., c.i.f.

GALSAMS.—*Canada*: Spot is now 27s. 6d. lb. for clear bright, paper - filtered; yard, 25s. 6d. per lb., c.i.f.; prompt payment. *Copaiba*: Para is offered on spot at 13s. 6d. per lb., duty paid. u is 14s. per lb., duty paid, and 12s. 9d. *Tolu* (genuine as imported) on the spot is 26s. per lb., and for shipment, c.i.f.

GENZOIN.—No. 1 Sumatra block on the spot is quoted at from £27 per cwt. and shipment, £25 10s., c.i.f. Siam aldehydes are from 25s. to 35s. per lb., spot, o size.

INNAMON.—Ceylon for shipment (c.i.f.): OOOO, 2s. 4½d.; OOO, 2s. 3½d., 2s. 2½d.; O, 2s. 1½d.; firsts, 1s. 8½d.; seconds, 1s. 8d.; thirds, 1s. 6½d.; quills, 1s. 4d.; featherings, 1s.; chips, 5½d. lb.

LOVES.—Firm. Quotations for Zanzibar are unchanged at 9s. 3d. per lb. nominal for spot, and 8s. 1d., c.i.f., forward. **INGER.**—African on the spot is 120s. cwt., and new-crop, 110s., c.i.f. Spot quotations for Jamaican are from 145s. to 16s. per cwt., as to quality, and from 8s. 6d., c.i.f., for shipment.

GUAIACUM RESIN.—Quotations are from 2s. to 3s. 3d. per lb. for spot material.

KARAYA.—No. 1 gum on the spot is 230s. per cwt.; No. 2, 165s.; No. 1 shipment is 185s., c.i.f.

KOLA NUTS.—African halves are available on the spot at 5d. per lb., 3½d., c.i.f., prompt shipment.

LIQUORICE.—Anatolian natural whole on spot in London is quoted at 52s. 6d. cwt.; Syrian, natural is 42s. 6d. Black juice quotations are from 180s. upwards, according to holder, duty paid. Turkish stick is 240s. per cwt., duty paid; Iranian stick, 475s. per cwt., duty paid.

LACE.—West Indian pale blade is 6d. per lb., for shipment; 7s. 6d., c.i.f. **MASTIC.**—Quotations for tears (No. 2) from 12s. per lb., spot.

MENTHOL.—Chinese is firm at 57s. 6d. lb., duty paid. Brazilian, 45s. 6d., y paid.

MERCURY.—Spot quotations are from £65 10s. per flask, ex warehouse.

MYRRH.—Aden selected sorts are quoted from £17 to £18 per cwt., on the spot. Tinctures are from £7 10s. to £8 10s., and mulated, £13.

NUTMEGS.—Quiet. West Indian 80's quoted at 3s. 4d. per lb. on the spot and 8½d. c.i.f. for shipment East Indian shipment, 2s. 6d., c.i.f.

RHUBARB.—Quiet. Shensi is 11s. 6d. per lb.; Double Deer No. 1, 8s.; other grades of Chinese rough round at from 3s. 9d. to 6s., all duty paid. No business.

SEEDS.—**ANISE.**—Cyprus, 115s., duty free; Turkish, 135s., in bond, and 150s., duty paid. **CARAWAY.**—Dutch is now offered at 92s. 6d., duty paid, and 74s., f.o.b. Holland. **CELERY.**—Indian, 1s. 10d. to 1s. 10½d. per lb., spot London. No French offerings. **CORIANDER.**—Market continues quiet. Spot Morocco, 52s. 6d. duty paid, and 49s. in bond; Argentine, 52s. 6d., duty paid. Shipment: Morocco continues to quote 41s. 6d. c.i.f., for August-September shipment, no business reported. **CUMIN.**—More inquiry. Spot Cyprus, 185s.; Indian, 187s. 6d. to 190s.; Morocco, 185s. in bond, and 200s., duty paid. Shipment market inclined to be firm all round. Cyprus, 157s. 6d.; Morocco, 185s., c.i.f., for August shipment. **DILL.**—Indian unchanged at 80s., spot London. **FENNEL.**—Indian is 195s.; French, 170s., in bond, and 185s., duty paid. **FENUGREEK.**—Market firm. Morocco spot London or Liverpool now quoted at 47s. 6d., duty paid. **MUSTARD.**—English, 82s. 6d. to 105s., according to quality.

SENNA.—Unchanged. *Tinnevelly* wet-crop quotations (c.i.f.) are: **LEAVES**: Prime No. 1, 1s. 4d. per lb.; No. 2, 1s. 1½d.; No. 3, 10d.; **PODS**: f.a.q., nominal; dark hand-picked, 2s. to 2s. 6d. *Alexandria*: Manufacturing pods, 1s. 6d., c.i.f.; hand-picked, 4s. 6d. to 7s., spot.

STROPHANTHUS.—*Kombé*, 100 per cent. is quoted at 18s. per lb. on the spot. *Gratus* shipment prices are in the neighbourhood of 30s. per lb., c.i.f.; spot material, 34s. per lb., nominal.

STYRAX.—Spot is 7s. 3d. per lb., duty paid.

TURMERIC.—Madras finger on the spot is 60s. per cwt., nominal. Forward offers are 50s., c.i.f.

VALERIAN.—Indian is offered at 135s. to 137s. 6d. per cwt., spot. Belgian at about 200s., scarce.

VANILLIN.—Rates (per lb.) are as follows:—5-cwt. lots, 40s.; 1-cwt., 40s. 3d.; 56-lb., 40s. 6d.; smaller quantities, 40s. 9d.

WAXES.—**BEES'.**—Dar-es-Salaam spot 430s. per cwt., scarce; shipment, August-September, 375s., c.i.f. Benguela on the spot is 400s. per cwt., in bond; shipment, 365s., c.i.f. **CANDELILLA.**—Spot supplies are offered at 640s. per cwt.; no shipment offers.

CARNAUBA.—Prime yellow, spot, 1,220s. per cwt.; afloat, 1,170s., c.i.f., and for shipment, 1,150s., c.i.f., per cwt. Fatty grey, spot 900s. per cwt. and 860s., c.i.f., for shipment. **MONTAN.**—Reibeck crude on the spot is 135s. per cwt. **OURICURI.**—Spot 0.5 per cent. impurities, 700s. per cwt.

Essential and Expressed Oils

ALMOND.—English - distilled is from 6s. 6d. per lb.

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE.—Spot supplies are offered at 8s. 6d. per lb., and shipment, 8s. 4½d., c.i.f.

BOIS DE ROSE.—Brazilian on the spot is 33s. 6d. per lb.

CASSIA.—Spot supplies are offered from 21s. per lb.

CEDARWOOD.—Spot quotations for Kenya are from 4s. 6d. per lb.

CAMPHOR, WHITE.—Chinese is 4s. 6d. per lb., on the spot.

CHENOPODIUM.—1-ewt. lots are 75s. per lb.

CINNAMON.—B.P. oil on the spot is quoted at from 65s. to 70s. per lb. English bark oil is offered at 22s. 6d. per oz., Ceylon leaf, 10s. per lb., spot, for 5-cwt. lots.

CITRONELLA.—Spot prices for original drums are: Ceylon, 3s. 11d. per lb.; Formosa, 4s., in bond; Java, 4s. 9d., in bond. Forward: Ceylon, 3s. 7d.; Formosa, 8s. 6d., and Java, 4s. 4d., all c.i.f., August shipment.

CLOVE.—English-distilled oil is 50s. per lb., nominal, with imported oils from 21s. 6d. Madagascar leaf on the spot is 15s. per lb., duty paid, and 11s. 6d., c.i.f. for shipment.

CORIANDER.—Russian-seed oil is 175s. per lb. Dutch-seed oil, 170s. per lb.

CUBEBS.—English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

CUMIN.—Quotations for English-distilled oil are about 75s. per lb.

DILL.—English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at 40s. per lb. with East Indian at 30s., spot.

EUCALYPTUS.—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 7s. per lb., and 80 to 85 per cent., 7s. 3d.

FENNEL.—Spanish sweet on the spot is quoted at from 9s. to 12s. 9d. per lb.

GERANIUM.—Bourbon on the spot is 85s. per lb.

GINGER.—English-distilled oil is from 120s. to 150s. per lb., as to grade. Imported oils are available at from 85s. per lb., as to quantity.

JUNIPER BERRY.—Imported oils are offered at 22s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 95s. per lb., as to seller and grade.

LEMON.—Sicilian hand-pressed (4 per cent. citral) is quoted at from 40s. to 46s. per lb., c.i.f.; spot is from 40s. to 50s., according to quantity and holder.

LEMONGRASS.—Forward quotations a 8s. 1d. per lb., c.i.f. Spot supplies a offered at 8s. 9d. per lb.

PEPPERMINT.—Firm. Chinese *arvensis* oil on the spot is from about 37s. per lb. Japanese, 35s. 6d.; Brazilian, 17s. per lb. in drums, shipment, 16s.; Italian " Mitcham " type, from 55s.

WORLD TRADE

Pharmaceuticals for China.—Chemical and pharmaceuticals to the value £250,000 left Liverpool by sea for China on August 7. They were dispatched under an agreement reached by British businessmen in Moscow in April, and are sailing under licences issued to the Propane C Ltd., 8 Heddon Street, London, W.1.

French Import Quotas with U.K.—French importers have been advised by the *Journal Officiel* that the new quota for purchase in Britain drawn up by the Joint Franco-British Committee on July 23 and 24 are now open. The goods to be imported include equipment for the soap, perfumery and pharmaceuticals industries, scientific and optical instruments, razors, and rubber gloves.

Indonesian Cinchona.—A 30 per cent extension in the area of cinchona in Indonesia ripe for cutting was record during 1951. The area planted during the year varied little from the previous one. It was equal to about 10,000 hectares (hectare=2.471 acres). During the year 2,153 tons of bark were delivered to the Bandung quinine factory, and 7,200 tons were exported from estates. To exports, at 7,126 tons for the year, were more than three times those for the previous year, 80 per cent. going to the Netherlands. The United Kingdom was the next largest importer, taking 907 tons. Quinine exports from Indonesia in 1951 amounted to 288 gross tons or 57 tons, a 43 per cent. increase in weight but a 10 per cent. decrease in weight from 1950 exports. Almost went to Far Eastern destinations.

Herb Crop Report.—W. J. BUSH Co., Ltd., Ash Grove, Hackney, London E.8, give the following herb crop report.

Peppermint.—Drought had its effect but the crops are fair. We think the yield will be much the same as last year.

Lavender.—Crops are good and flower production is plentiful. The amount grown however is small. *Chamomile*.—Not much is being grown but it is a fair crop.

TRADE MARKS

From the "Trade Marks Journal," July 23

r pharmaceutical preparations, and infants', invalids' and dietetic foods (5).

PROTOMAC, 706,977, by Phillips Yeast Products, Ltd., London, N.W.10.

r pharmaceutical preparations in tablet form addition to tea (5).

MEDANA TEATIME TABLETS, 707,788, by George Wright Taylor, Bradford.

r insecticides (5).

HALBEX, 707,878, by Shell Chemicals, Ltd., London, E.C.4.

r sunglasses, tinted eye glasses, anti-dazzle and anti-glare glasses and tinted goggles (9).

FILCLARE, 707,463, by the Telecolour Screen Co., London, W.1.

r nail and hair brushes (21).

BRISTOW'S, 686,084, by T. F. Bristow & Co., Ltd., London, S.W.1.

r combs, sponges and brushes (21).

LUNMET, London Metal Warehouses, Ltd., Thames Ditton.

r babies' knickers made of waterproof material (5).

PADDI, 706,262, by Robinson & Sons, Ltd., Chesterfield.

From the "Trade Marks Journal," July 30

r agricultural and horticultural chemicals (1).

ETHODEX, 701,898, by Deodor-X Hygiene Services, Ltd., Ellesmere Port.

r non-medicated and medicated bath preparations containing pine extract (3) and (5).

NOVOPINE, B662,718-19, by Astropine, Ltd., London, E.3.

r pharmaceutical preparations made from brewer's yeast (5).

VIMAX, 707,840, by Alex Dawson Perry, Coventry.

r detergents (3).

BIWIT, 706,886, by Société des Produits Tensio-Actifs et Dérivés Tensia, S.A., Liège, Belgium.

r all goods (5).

NICOTIBINA, 705,786, by Lepetit Sociedad Anonima, Milan, Italy.

r preparations for preventing or removing scurf (5).

SCURFEXO, 705,878, by George Wright Taylor, Bradford.

r pharmaceutical preparations for the treatment of gastric ulcers (5).

ULSATON, 706,351, by Mathison & Scott, Edinburgh.

r tablets for the treatment of ulcers in the stomach and intestines (5).

RABRO, 707,392, by Handelmaatschappij Rabro, N.V., Nijmegen, Holland.

r pharmaceutical preparations to aid the digestion (5).

DÜLCA-BISK, 707,980, by George Wright Taylor, Walkley.

r disinfectants and sheep dips (5).

SUDOL, 707,600, by Prince Regent Tar Co., Ltd., London, W.C.2.

For non-metallic cases for holding and dispensing safety razors (8).

SPEEDPAK, 703,021, by Ever-Ready Razor Products, Ltd., London, N.W.9.

For surgical, medical, dental and veterinary instruments of glass or plastics (10).

Device of fork, 707,814, by Johnsen & Jorgensen Flint Glass, Ltd., London, E.C.4.

For oil of lemon and oil of peppermint, both being essential oils (3).

LEONARDO VINCI, JOHNATHAN C. STEELE'S, 703,160-61, by O. Murray & Co., Ltd., London, E.C.3.

From the "Trade Marks Journal," August 6

For industrial chemicals (1).

DRISIL, 706,518, by Midland Silicones, Ltd., London, W.1.

For industrial, agricultural and horticultural chemicals (1).

HERCULES, and device of Hercules, 700,525-26, by Hercules Powder Co., Delaware, U.S.A.

For non-medicated toilet preparations (3).

SUIVEE, 699,092, by Nikki Notions, Ltd., London, W.1. HARRIET HUBBARD AYER, 707,157, by Harriet Hubbard Ayer, Ltd., London, W.1.

For all goods (3).

DRAGOCO, 701,117, by Dragoco Spezialfabrik Konz, Riech-U, Aromastoffe Gerberding & Co., Holzminden an-der-Weser, Germany.

For detergents (3).

FRUM, B707,183, by Lloyd Rakusen & Sons, Ltd., Leeds.

For preparations consisting mainly of sugars for reducing the appetite (5).

ANN DELAFIELD, 700,114, by Ann Delafield, New York.

For moth repelling and destroying preparations (5).

MOTHAIRE, B706,327, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts.

For all goods (5).

ZINAX, 706,624, by Hynson, Westcott & Dunning Inc., Maryland, U.S.A. ROSUL, CAF-MIN, 707,491-990, by Genatosan, Ltd., Loughborough.

For all goods, excluding medicated toilet paper (5).

SEASURE, 706,916, by Edward Hack, London, W.C.1.

For milk food for infants (5).

MAMYSAN, 706,628, by Aktieselskabet den Danske Mælkekondenseringsfabrik, Måkskov, Denmark.

For infants' and invalids' foods and dietetic foods (5).

PRO-FERRIN, 707,353, by Starch-Free Foods, Ltd., London, E.C.3.

For pharmaceutical preparations for internal use, sanitary substances, infants', invalids' and dietetic foods (5).

SELENDO, 707,354, by Starch-Free Foods, Ltd., London, E.C.3.

PRINT AND PUBLICITY

Fatty Acids.—A loose-leaf booklet on saturated, unsaturated and mixed fatty acids has been issued by Hess Products, Ltd., 4 Albion Street, Leeds, 1.

New Display Pack.—A new quarter-dozen display pack for Toddilox has been issued by F. W. Hampshire & Co., Ltd., Derby.

Price List.—The July issue of the Abbott quick-reference price list is now available from Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex.

Kitchen Hygiene.—Newton, Chambers & Co., Ltd., Thorncleiffe, Sheffield, have issued a 24-p. booklet entitled "The Izal Service for Kitchen Hygiene."

Photographic Catalogue.—A new catalogue of photographic apparatus and accessories has been issued recently by R. F. Hunter, Ltd., Celfix House, 51 Gray's Inn Road, London, W.C.1.

Manufacture of Gelatin Capsules.—R. P. Scherer, Ltd., Bath Road, Slough, Bucks, have recently issued a 20-p. plastic bound brochure on the "Rotary Die Encapsulation" process invented by Robert Pauli Scherer for the manufacture of flexible gelatin capsules.

"Showtime" Song.—A song entitled "The Tintex Girl" is a feature of the production "Showtime" running for the summer season in Southsea. Tintex Dyes, Ltd., 127 High Street, Croydon, Surrey, have also provided six Tintex dresses for the ballet in the show.

Press Campaigns.—THERMOS (1925), Ltd., Seymour Road, London, E.10, are currently advertising their Thermos vacuum flask model No. 7 in the national Press.—Advertisements for Kerofil tooth-paste and Kerofil lozenges will include a half-page in the "Daily Express" on August 22. Reproductions of the advertisement for use as window bills will be available from THOMAS KERFOOT & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne.

Display Material.—A series of display crowns for the larger-selling Rexall preparations are available from the REXALL DRUG Co., Ltd., Kirke-white Street, Nottingham. — A range of show material for Bristow's lanolin products is available from T. F. BRISTOW & Co., Ltd., Boston Manor Road, Brentford, Middlesex. — Designed like letter racks, new counter units to hold packets of Evan Williams toning packs and shampoo have been issued by EVAN WILLIAMS Co., Ltd., Aintree Koad, Perivale, Middlesex.

Medical Leaflets.—Leaflets, folders and booklets are obtainable from manufacturers as listed below:—

ABBOTT LABORATORIES, Ltd., Perivale, Greenford, Middlesex: "Hykinone" (8-p. folder); "Di-paralex," "Triazyl Dulcet tablets" (cards); "Phenone" (16-p. booklet).

BAYER PRODUCTS, Ltd., Africa House, Kingsway, London, W.C.2: "Levophed" (8-p. booklet).

BOOTS PURE DRUG Co., Ltd., Station Street, Nottingham: "Mycota Fungicidal Preparations" (6-p. folder); "Epitone" (4-p. leaflet).

EVANS MEDICAL SUPPLIES, Ltd., Speke, Liverpool, 19; "Dindevan" (4-p. leaflet).

SHARP & DOHME, Ltd., Hoddesdon, Hertfordshire: "Cadroson" (4-p. leaflet); "Cresatin" (6-p. folder).

WESTMINSTER LABORATORIES, Ltd., Chalcot Lane, London, N.W.1: "A Fundamental Advance in Senna Therapy—Senokot" (6-p. folder).

A. J. WHITE, Ltd., 119 Coldharbour Lane, London, S.E.5: "Nefco—the Ready Answer to Coughs" (a window bill with technical information on the reverse).

A PHARMACIST'S ANTHOLOGY

BONE-LAZINESS was looked upon as an infirmity, but like cancer was considered to be quite beyond medical cure. . . . Any relatives with the appeal of despair will ask me if nothing could be done for unfortunate sufferers. One hard-working farmer had a son who was a thorough bad lot, a typical "bowdykite," who "tremmled agecan" at the mention of word work. One day he [the farmer] marked that though he believed I was "verra clever feller" he was ready to bet me a sovereign that I could not cure his son of his disorder. To his surprise I struck the bet with a forcible smack of the hand, and the unsatisfactory son was won for. He happened to be in a very bad humour at the time and seemed not amused when he heard the nature of the bet, and at once offered to undergo treatment ordered. I explained the *methodus operandi*—that two blisters would be applied to that part of his anatomy proved for sitting down, and that at night he would take one of my celebrated "early rises" a pill which would call him out of bed at 5 o'clock in the morning. I also told him he would be required to come over to my surgery for a course of faradization. He took exception to the blisters but came down for the electrical treatment. I placed the two rheophths under his osters (armpits) and gave him a good ten minutes at high pressure, during which he "flattered, dithered, doth and shook awl over." This very difficult treatment he stood like a man, the "sweet" rolled down his face. He also in my presence one of my pills, which was a lightning cure. He sent a message next day to say that he had had more than "eneagh" of that "rivin diament" and was going to work that afternoon. — From "My Moon Patients," by Dr. A. B. Bishop.



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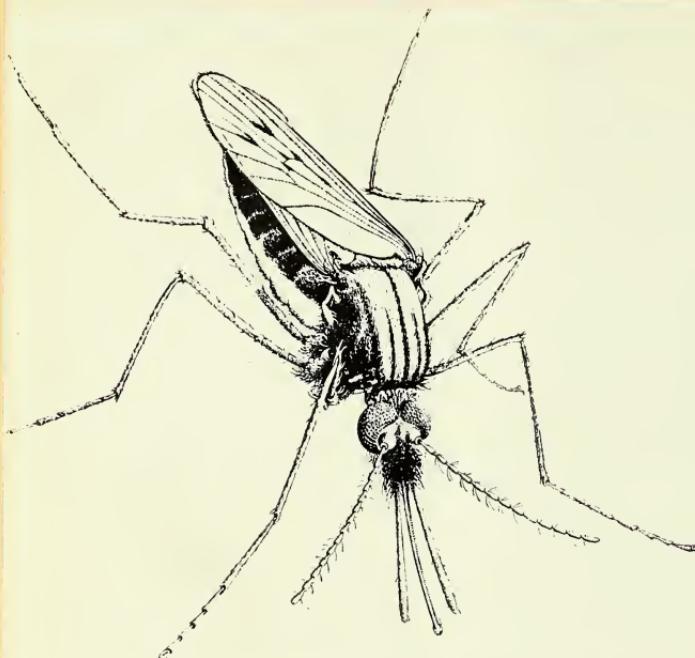
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WHIFFEN & SONS LTD., FULHAM, LONDON, S.W.6
Telephone : RENown 3416 Telegrams : Whiffen, Walgreen, London

AUGUST 16, 1952



prompt, soothing relief from itching...

'DERMOGESIC' Analgesic
Calamine Ointment (Non-greasy) for the
treatment of insect bites . . . sunburn
. . . summer prurigo . . . intertrigo . . .
pruritus scroti . . . and many other
irritative skin conditions.

'DERMOGESIC' Ointment does not
stain the skin, is non-greasy, and can
be safely used on infants. Contains:
Calamine, 8%; Benzocaine, 3%;

Hexylated Metacresol, 0.05%, in a
vanishing cream base. Supplied in 1-oz.
and 4-oz. collapsible tubes.

Retail selling price:
1-oz. tube . . . 3/4 $\frac{1}{2}$ (including
Purchase Tax); 4-oz. tube . . . 11/-
(including Purchase Tax).

Special net price for parcels of 36 1-oz.
tubes or more . . . 21/- per dozen,
carriage paid (plus Purchase Tax).

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